1

DOCUMENT RESUME

ED 121 188 HE 007 630

AUTHOR Johnson, Charles; And Others
TITLE Physical Facilities at North Dakota Institutions of Higher Education. Fall Semester 1974.
INSTITUTION North Dakota State School of Science, Wahpeton.
SPONS AGENCY North Dakota Higher Education Facilities Commission, Bismarck.
PUB DATE 74
NOTE 109p.; Prepared by the Computer Center of North Dakota State School of Science

EDRS PRICE MF-$0.83 HC-$6.01 Plus Postage
DESCRIPTORS Building Improvement; Building Obsolescence; Construction Costs; Construction Needs; *Educational Facilities; *Facility Requirements; Financial Support; *Higher Education; Post Secondary Education; School Construction; School Surveys; *State Surveys; *Statistical Data; Tables (Data)
IDENTIFIERS *North Dakota

ABSTRACT

All physical facilities used by institutions of post-secondary education in the state, including both public and private colleges and universities, are inventoried. The survey was undertaken as a first step in comprehensive planning on a state-wide basis. Tabular data are presented on land, building, and room inventories in Part 1, and on general classification and class laboratory utilization in part 2. Information reported includes details on value, areas covered, building permanence, building funds, space per student, inside area by primary room function, quality of space, utilization of student stations, and housing facilities. The data are intended for use with enrollment, faculty, curriculum, cost, and similar information to aid in the orderly development of quality education programs. This will allow the North Dakota Higher Education Facilities Commission to establish building priorities based on reliable and comparable data as well as give the Office of Education an indication of future building needs in the state. More efficient use of local, state, and federal tax dollars should result. (LBH)

****
* Documents acquired by ERIC include many informal unpublished *
* materials not available from other sources. ERIC makes every effort *
* to obtain the best copy available. Nevertheless, items of marginal *
* reproducibility are often encountered and this affects the quality *
* of the microfiche and hardcopy reproductions ERIC makes available *
* via the ERIC Document Reproduction Service (EDRS). EDRS is not *
* responsible for the quality of the original document. Reproductions *
* supplied by EDRS are the best that can be made from the original. *
****

NORTH DAKOTA HIGHER EDUCATION FACILITIES COMMISSION

Richard P. Rausch, Chairman
Bismarck

Kenneth Galloway
Devils Lake

Kenneth Urdahl
Jamestown

Harold C. Refling
Bottineau

V. J. Buck
Jamestown

Robert C. Painter
Grand Forks

Peter C. Hinrichs
Dickinson

Eleanor Grahl
Bismarck

Richard H. McGee
Minot

Geraldine S. Clapp
Fargo

North Dakota Higher Education
Facilities Commission

PHYSICAL FACILITIES AT NORTH DAKOTA INSTITUTIONS OF HIGHER EDUCATION

Fall Semester, 1974

Prepared by

NORTH DAKOTA STATE SCHOOL OF SCIENCE
Computer Center
Wahpeton, North Dakota

Charles Johnson

With Assistance From

Mary Herman
Donna Baron
Mardella Walls

PREFACE

In the fall of 1967, the North Dakota Higher Education Facilities Commission initiated a study to inventory all physical facilities used by institutions of post-secondary education in the state. Both public and privately-operated colleges and universities were included in order to obtain complete information as a first step in comprehensive planning on a state-wide basis. The study was made possible through United States Office of Education funds appropriated under the Higher Education Facilities Act.

The Facilities Commission wishes to acknowledge the extensive assistance and cooperation received from each participating college and university. The institutional effort often resulted in additional burdens placed upon existing staff and resources. This effort was greatly appreciated.

TABLE OF CONTENTS

PREFACE....ii

LIST OF TABLES....iv

LIST OF GRAPHS....vi

INTRODUCTION....1
Abbreviations....2
Definitions....3

PART I. INVENTORY OF PHYSICAL FACILITIES

LAND INVENTORY....10

BUILDING INVENTORY....43

ROOM INVENTORY....61

PART II. UTILIZATION

GENERAL CLASSROOM UTILIZATION....84

CLASS LABORATORY UTILIZATION....90

LIST OF TABLES

TABLES		PAGE
1.	Extent and Estimated Value of College Land Holdings By Location of Land	8
2.	Extent and Estimated Value of College Land Holdings By Ownership of Land	9
3.	List of Buildings at each Institution	11
4.	Gross Area of College Buildings by Ownership	37
5.	Date of Original Construction of College Buildings	39
6.	Building Permanence	42
7.	Replacement Value of College Buildings	44
8.	Amount of Building Funds by Source for College Buildings Constructed Since 1964	45
9.	Cost Summary of Latest College Buildings	49
10.	Type of Building Construction	50
11.	Air Conditioning in College Buildings	52
12.	College Buildings by Function	53
13.	Condition of College Buildings	55
14.	Amount of Gross Square Feet of College Building Space In Relation to Enrollment	58
15.	Summary of Building Areas By Use	62
16.	Assignable Space By Primary Use of Room	63
17.	Number of Square Feet Per Student of Various Use of Space Per Student	66
18.	Inside Area By Primary Room Function	68

LIST OF TABLES (Cont.)

TABLES		PAGE
19.	Assignable Space By Primary Room Function	70
20.	Number of Square Feet Per Student for Various Functions of Space	73
21.	Quality of Inside Room Areas	75
22.	Quality of Classroom Space	77
23.	Quality of Class Laboratory Space	79
24.	Quality of Office Space	82
25.	Utilization of General Classrooms - Fall, 1974	86
26.	Utilization of Actual Student Stations in General Classrooms - Fall, 1974	87
27.	Utilization of Optimum Student Stations General Classrooms - Fall, 1974	88
28.	Utilization of Class Laboratories - Fall, 1974	91
29.	Utilization of Actual Student Stations in Class Laboratories - Fall, 1974	92
30.	Contact Hours Produced in Various Room Types	95
31.	Student Credit Hours Produced in Various Room Types	97
32.	Type of Rooms in Single Student Housing Facilities - 1974	99
33.	Types of Units in Married Student Housing Facilities - 1974	100

LIST OF GRAPHS

GRAPHS		PAGE
1.	Gross Area of Building Space	38
2.	Date of Original Construction of College Buildings	41
3.	Construction Funds by Source for College Buildings Constructed Since 1964	47
4.	Construction Funds by Source for College Buildings Since 1964	48
5.	Condition of College Buildings	57
6.	Gross Square Feet of College Building Space in Relation to Enrollment	59
7.	Assignable Space by Room Type in College Buildings	65
8.	Assignable Space by Room Type in College Buildings	72
9.	Quality of Rooms	76
10.	Comparison of Actual and Optimum Student Station Utilization in General Classrooms	89
11.	Utilization of Actual Student-Stations in Class Laboratories - Fall 1974	93

INTRODUCTION

The facilities inventory and utilization study initiated in the Fall of 1967 was refined and updated each fall since that time. The following report summarizes the results of this latest effort.

The enclosed information will be used together with enrollment, faculty, curriculum, cost, and similar data to aid in the orderly development of quality education programs in post-secondary educational institutions in the state. This will also allow the Facilities Commission to establish building priorities based upon reliable and comparable data as well as give the United States Office of Education an indication of future building needs in North Dakota. More efficient use of local, state, and federal tax dollars should result.

The colleges and universities involved in this study are already making use of the data to improve their use of existing facilities as well as to plan for future building needs.

Once again excellent cooperation was received from all institutions. This is especially noteworthy when one considers that most colleges and universities do not have institutional research personnel. As a result the existing staff had to assume the extra burden of data gathering and reporting. In spite of the hardships, a commendable job was done.

ABBREVIATIONS

Abbreviations	Institutions
NDSU	North Dakota State University Fargo, North Dakota
UND	University of North Dakota Grand Forks, North Dakota
DSC	Dickinson State College Dickinson, North Dakota
MaSC	Mayville State College Mayville, North Dakota
MiSC	Minot State College Minot, North Dakota
VCSC	Valley City State College Valley City, North Dakota
BJC	Bismarck Junior College Bismarck, North Dakota
NDSU-BB	North Dakota State University-Bottineau Bottineau, North Dakota
LRJC	Lake Region Junior College Devils Lake, North Dakota
UND-WC	University of North Dakota-Williston Williston, North Dakota
SSS	North Dakota State School of Science Wahpeton, North Dakota
JC	Jamestown College Jamestown, North Dakota
MC	Mary College Bismarck, North Dakota

DEFINITIONS

Most of the following definitions were taken from the manual, Facilities Classifications and Inventory Procedures for Institutions and State Agencies, U.S. Department of Health, Education, and Welfare, Office of Education, August, 1967 (Fifth Draft).

BUILDING PERMANENCY

Temporary Buildings: Buildings of surplus vintage or other structures acquired to satisfy immediate needs until permanent structures are available.

Permanent Buildings: Facilities constructed to be permanent until deterioration requires their replacement.

BUILDING CONDITION

Satisfactory: Suitable for continued use with normal maintenance.

Remodeling A: Requires restoration to present acceptable standards without major room use changes, alterations, or moderization. The approximate cost of "Remodeling A" is not greater than 25% of the estimated replacement cost of the building.

Remodeling B: Requires major updating and/or moderization of the building. The approximate cost of "Remodeling B" is greater than 25% but not greater than 50% of the estimated replacement cost of the building.

Remodeling C: Requires major remodeling of the building. The approximate cost of "Remodeling C" is greater than 50% of the replacement cost of the building.

Demolition: Should be demolished or abandoned because the building is unsafe or structurally unsound, irrespective of the need for the space or the availability of funds for a replacement.

Termination: Planned termination or relinquishment of occupancy of the building for reasons other than unsafeness or structural unsoundness, such as abandonment of temporary units or vacation of leased space.

ROOM CONDITION

Should be Replaced: Room is probably of an older structure which is probably obsolete, with insufficient heating, cooling, electrical wiring, etc. It is probably unsafe due to poor wiring, inadequate exits or weakened supporting structure, fire vulnerability, etc.

Poor Condition: Major repairs or extensive renovation costs are probably uneconomical. Room is usable but with a life expectancy of only one to five years before being qualified in the category SHOULD BE REPLACED. Need for its space and the lack of funds to build a replacement force continuation of its use.

Fair Condition: Room is probably with a useful life expectancy of five to ten years due to type of construction deterioration and obsolescence for institutional use. Cost of upkeep and maintenance is probably getting beyond normal efficient expenditures. Needs major rehabilitation (restoration to its optimum condition without major alterations, moderization, or expansion).

Good Condition: Room has a probable life expectancy of an additional ten to twenty years. It is compatible with present and planned usage and maintenance and upkeep costs are reasonable.

Excellent Condition: Room is well equipped for institutional uses for another twenty to forty years.

AREA

Gross: The sum of the floor areas included within the outside faces of exterior walls for all stories, or areas, which have floor surfaces.

Assignable: The floor area that is assigned to, or available for assignment to, an occupant, including every type of space functionally usable by an occupant. This area is computed by measuring from the inside finish of walls and partitions at or near the floor level.

TYPE OF ROOM

General Classroom: A room used by classes which do not require special-purpose equipment for student use. Included in this category are rooms generally referred to as lecture rooms, lecture-demonstration rooms, seminar rooms, and general purpose classrooms. A Classroom may be equipped with table arm chairs (fixed to the floor, joined together in groups, or flexible in arrangement), tables and chairs (as in a seminar room), or similar types of seating. A Classroom may be furnished with special equipment appropriate to a specific area of study if this equipment does not render the room unsuitable for use by classes in other areas of study.

Class Laboratory: A room used by regularly scheduled classes which require special-purpose equipment for student participation, experimentation, observation, or practice in a field of study. A Class Laboratory is designed and/or furnished with specialized equipment to serve the needs of a particular area of study for group instruction in regularly scheduled classes. The design and/or equipment in such a room normally precludes its use for other areas of study. Included in this category are rooms generally referred to as teaching laboratories, instructional shops, typing laboratories, drafting rooms, band rooms, choral rooms, (group) music practice rooms, language laboratories, (group) studios, and similar specially designed and/or equipped rooms if they are used primarily for group instruction in regularly scheduled classes.

Special Class Laboratory: A room used by informally (or irregularly) scheduled classes which require special-purpose equipment for student participation, experimentation, observation, or practice in a field of study. A special Class Laboratory is designed and/or furnished with specialized equipment to serve the needs of a particular area of study for group instruction in informally (or irregularly) scheduled classes. The design and/or equipment in such a room normally precludes its use for other areas of study. Special Class Laboratories typically (but not necessarily or exclusively) include such rooms as language laboratories, (group music practice rooms, (group) studios, etc.

Individual Study Laboratory: A room especially equipped and/or designed for individual student experimentation, observation, or practice in a particular field of study. Included in this category are music practice rooms, individual study laboratories, and similar rooms which serve a particular subject-matter area. Stations may be grouped (as in an individual study laboratory) or individualized (as in a music practice room)

Non-Class Laboratory: A room used for laboratory application, research and/or training in research methodology which requires special-purpose equipment for staff and/or student experimentation or observation. Included in this category are rooms generally referred to as research laboratories and research laboratory-office.

Office: A room used by faculty, staff, or students working at a desk (or table). Included in this category are rooms generally referred to as faculty offices, administrative offices, clerical offices, graduate assistant offices, teaching assistant offices, student offices, etc. Also included in this category is a Studio (Music, Art, etc.) if such a room serves as an office for a staff member. (A studio intended to serve a group of students is classified as Class Laboratory). An office typically is equipped with one or more desks, chairs, tables, bookcases, and/or filing cabinets.

Clinic Facilities: A room for the diagnosis and/or treatment of patients in a program other than medicine (human or veterinary), dentistry, and student health care. Included in this category are rooms generally referred to as patient examination rooms, testing rooms, consultation rooms. Clinics are typically associated with such education areas as psychology, speech and hearing, remedial reading, and remedial writing.

Demonstration Facilities: A room (or group of rooms) used to practice the principles of certain subject-matter areas, particularly teaching and home management. This category includes demonstration schools, laboratory school, pre-school nurseries, etc., if the facilities support the training of the college-level students involved as (certified) teachers. This category includes home management houses which serve to train college-level students in home management.

ROOM FUNCTIONS

Instruction: Any activity the primary objective of which is the transmission or dissemination of knowledge to college students on a group or individual basis, including that portion of graduate instruction involving organized classes for which credit is awarded.

Research: Any activity the primary objective of which is the discovery or application of knowledge, including the research activities engaged in by students as a part of their graduate training.

Public Service: Any activity the primary objective of which is to make available to the general public the benefits of the instructional and/or research activities of an institution of higher education. This definition is intended to include activities of a cultural nature as well as activities frequently described as "extension" or "adult and continuing education."

Library: The orderly collection, storage, and retrieval of knowledge. This activity may be housed in a central location or decentralized and housed in two or more separate facilities. In either case, those activities which are under the supervision and control of a "Director of Libraries" and are available for use by more than one department within an institution of higher education should be included in this category.

General Administration and Institutional Services: Any activity the primary objective of which is the orderly planning and operation of the instruction, research, and/or public service functions of an institution of higher education in terms of academic affairs, fiscal affairs, personnel, student affairs, public relations, development, etc. For the purposes of this classification system, this category is intended to include the functions represented by the budget categories of General Administration, General Services, and Physical Plant.

Auxiliary Services: Activities which are characteristically represented by the types of physical facilities classified by "Room Type" and "General Use Facilities and Residential Facilities" except to the extent such activities support instruction, research, public service, library, and/or general administration and institutional services.

Non-Institutional Agencies: Public or private agencies not under the supervision or control of the institutional administration.

Unassigned: All areas which are unassigned at the time of the inventory either because of the nature of the space or because of its present condition.

UTILIZATION

Class: A regularly scheduled academic unit of one or more students formally organized for instruction in a specific course under the supervision of an instructor.

Class Size: The total number of students enrolled in the class for credit.

Period: A unit of time approximately one hour in length.

Station: The total facilities and/or space required to accommodate one person at a given time. In a classroom it is generally a desk or chair. Both a work station and a desk may be required in a laboratory to accommodate one student.

Actual Stations: The actual number of stations in a room at the time of space inventory.

Optimum Stations: The number of stations that a room theoretically should contain assuming a given number of square feet per student station. For this study 16 square feet per station was considered appropriate. The use of a common figure to compute optimum stations allows for comparisons on a standardized basis regardless of how many or how few actual stations are in a room.

Room Utilization: Utilization refers to the amount of time that a given unit is in use. Concerning rooms, utilization in this study a regularly scheduled class. The room is considered to be in use regardless of the size of class meeting there.

Student Station Utilization: Utilization here refers to the average number of periods per week that a student station is occupied by a student in a regularly scheduled class.

Student Station Utilization When Room Is In Use: This utilization figure is the average percentage of student stations that are occupied when a room is in use. This figure gives an indication of how "full" a classroom is when it is being used.

Utilization Index: The purpose of an index is to enable comparisons to be made on a common basis. An index may be based upon any given criteria or assumptions. In utilization studies a decision has to be made as to how many periods of room or station use constitutes an acceptable level of use. For this study it was decided that a room should be used at least 30 hours per week and a student station 18 hours a week. If these goals are exactly achieved, an institution will receive a rating on the index of 1.00 or 100% of the level of use considered minimal. The goal is to have all institutions with ratings of 1.00 or better.

Doi-Scott Percentile Rank: In order to compare State institutions with national averages, this ranking procedure was used. It was developed by James I. Doi and Keith L. Scott and published by the American Assoc. of College Registrars and Admissions Officers in July, 1960. The norms are based upon a sample of public and private institutions throughout the country. A percentile rank of 65 indicates that better utilization was attained than 65 percent of the National Sample.

TABLE 1

EXTENT AND ESTIMATED VALUE OF COLLEGE LAND HOLDINGS
BY LOCATION OF LAND

	INSTITUT.	ON CAMPUS PROPER ACRES	ON CAMPUS PROPER VALUE	WITHIN ONE MILE RADIUS ACRES	WITHIN ONE MILE RADIUS VALUE	MORE THAN ONE MILE RADIUS ACRES	MORE THAN ONE MILE RADIUS VALUE	TOTAL ACRES	TOTAL VALUE
Public 4-Year	NDSU	2,453.2	4,301,934	--	--	6,192.0	809,837	8,645.2	5,111,771
	UND	321.6	538,350	--	--	746.0	100,000	1,067.6	638,350
	DSC	82.7	436,000	--	--	--	--	82.7	436,000
	MaSC	43.3	100,720	11.2	6,416	--	--	54.5	107,136
	MiSC	103.0	111,750	--	--	--	--	103.0	111,750
	VCSC	64.0	191,000	30.0	30,000	--	--	94.0	221,000
	TOTAL	3,067.8	5,679,754	41.2	36,416	6,938.0	909,837	10,047.0	6,626,007
Public 2-Year	BJC	80.44	683,740	--	--	--	--	80.44	683,740
	NDSU-BB	33.0	70,000	--	--	--	--	33.0	70,000
	LRJC	70.0	7,000	64.0	10,000	--	--	134.0	17,000
	UND-WC	80.0	80,000	--	--	--	--	80.0	80,000
	SSS	125.0	544,889	--	--	--	--	125.0	544,889
	TOTAL	388.44	1,385,629	64.0	10,000	--	--	452.44	1,395,629
Private	JC	27.28	255,600	--	--	80.0	--	107.28	255,600
	MC	107.4	85,920	--	--	--	--	107.4	85,920
	TOTAL	134.68	341,520	--	--	80.0	--	214.68	341,520
	TOTAL ALL INSTITUT.	3,590.92	7,406,903	105.2	46,416	7,018.0	909,837	10,714.12	8,363,156

TABLE 2

EXTENT AND ESTIMATED VALUE OF COLLEGE LAND HOLDINGS BY OWNERSHIP OF LAND

	INSTITUT.	IN FEE SIMPLE ACRES	IN FEE SIMPLE VALUE	LOANED OR RESTRICTED RIGHTS OF USE ACRES	LOANED OR RESTRICTED RIGHTS OF USE VALUE	TOTAL ACRES	TOTAL VALUE
Public 4-Year	NDSU	8,645.2	5,111,771	--	--	8,645.2	5,111,771
	UND	944.1	500,366	123.5	137,984	1,067.6	638,350
	DSC	82.7	436,000	--	--	82.7	436,000
	MaSC	43.3	100,720	11.2	6,416	54.5	107,136
	MiSC	103.0	111,750	--	--	103.0	111,750
	VCSC	94.0	221,000	--	--	94.0	221,000
	TOTAL	9,912.3	6,481,607	134.7	144,400	10,047.0	6,626,007
Public 2-Year	BJC	80.44	683,740	--	--	80.44	683,740
	NDSU-BB	33.0	70,000	--	--	33.0	70,000
	LRJC	134.0	17,000	--	--	134.0	17,000
	UND-WC	80.0	80,000	--	--	80.0	80,000
	SSS	23.0	100,260	102.0	444,629	125.0	544,889
	TOTAL	350.44	951,000	102.0	444,629	452.44	1,395,629
Private	JC	107.28	255,600	--	--	107.28	255,600
	MC	107.4	85,920	--	--	107.4	85,920
	TOTAL	214.68	341,520	--	--	214.68	341,520
	TOTAL ALL INSTITUT.	10,477.42	7,774,127	236.7	589,029	10,714.12	8,363,156

PART I

INVENTORY OF PHYSICAL FACILITIES

The inventory of North Dakota's facilities for higher education is summarized in Part I of this report. This Part is divided into three sections according to the three main ingredients of physical facilities: i.e., land, buildings, and the individual rooms within those buildings.

Land Inventory

A knowledge of current land holdings and the availability of additional land is essential to campus planning. This section summarizes information concerning current land holdings and institutional projections of future land needs.

Of the 10,714.12 acres of land area held by North Dakota colleges and universities, approximately 33 percent is located on the campus proper. Most of the land away from the campus at North Dakota State University is experimentation farm land as well as a substantial portion of the area on the main campus. At the University of North Dakota, this separated land includes 697 acres of biological research area from government surplus lands and donated farm land whose revenue supports student scholarships. The total valuation of college land holdings is $8,363,156. Table 1 presents the location and value of land holdings by North Dakota institutions of higher education.

The ownership of land used by North Dakota colleges is categorized in Table 2. The local school districts at Williston and Devils Lake own the land upon which UND-Williston Center and Lake Region Junior College is located.

TABLE 3

LIST OF BUILDINGS AT EACH INSTITUTION

INSTITUTION - NORTH DAKOTA STATE UNIVERSITY

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Administration	35,827	282,000	1891	1928	Admin. Office	Load Bearing Masonry	Satisfactory
President's House	4,553	74,000	1949	1972	Faculty Ho.	Wood Frame with Brick	Satisfactory
Ceres Hall	58,223	640,000	1910	1972	Multipurpose Off.	Wood Frame	Remodeling B
Health Center	4,642	42,000	1939	1964	Student Health	Load Bearing Masonry	Satisfactory
Festival Hall	19,766	115,000	1907	1924	Multipurpose	Wood Frame	Demolition
Memorial Union	97,351	719,000	1952	1963	Student Un.	Load Bearing Masonry	Satisfactory
Home Economics	34,320	482,000	1953	--	Classroom	Load Bearing Masonry	Satisfactory
Churchill Hall	46,707	591,000	1931	1971	Mens Res.	Rein. Concrete Frame	Satisfactory
Dinan Hall	32,615	574,000	1953	--	Womens Res.	Steel Frame	Satisfactory
Home Management	3,896	41,000	1922	--	Home Mgt. Lab	Wood Frame with Brick	Remodeling A
Putnam Hall	8,045	67,000	1905	--	Classroom	Wood Frame with Brick	Remodeling B
Library	55,281	663,000	1949	--	Library	Rein. Concrete Frame	Remodeling A
So. Engineering	51,125	402,000	1907	1927	Classroom	Wood Frame with Brick	Demolition
Agricultural Engineering	23,972	367,000	1950	1961	Instr. Lab	Steel Frame	Satisfactory
Ladd Hall	40,209	415,000	1910	1964	Phys. and Nat.	Rein. Concrete Frame	Remodeling C
Dunbar Hall	40,340	916,000	1910	1964	Phys. and Nat.	Rein. Concrete Frame	Satisfactory
Dairy Building	8,840	96,000	1913	--	Agricul. Res.	Load Bearing Masonry	Satisfactory

TABLE 3

INSTITUTION - NORTH DAKOTA STATE UNIVERSITY

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Dolve Hall	49,685	566,240	1951	1965	Classroom	Load Bearing Masonry	Satisfactory
Aeronautical Laboratory	4,000	16,000	1949	--	Instr. Lab	Steel Frame	Satisfactory
Field House	65,163	641,000	1931	--	Field House	Load Bearing Masonry	Remodeling B
Minard Hall	78,394	677,000	1901	1930	Classroom	Load Bearing Masonry	Satisfactory
Power House	11,280	881,000	1904	1962	Heating Plant	Load Bearing Masonry	Satisfactory
Morrill Hall	61,854	661,000	1922	1930	Classroom	Rein. Concrete Frame	Remodeling B
Agr. Quonset and Bulletin	4,000	22,000	1949	--	Extension	Steel Frame	Satisfactory
Pathology Greenhouse	7,784	37,000	1935	--	Agri. Research	Glass Building	Demolition
Athletic Quonset	500	1,380	1950	--	Warehouse	Light Wt. Metal	Satisfactory
Cereal Tech. Building	30,239	607,765	1953	1967	Agri. Research	Load Bearing Masonry	Satisfactory
Lord and Burnham Grnhses	50,131	403,000	1950	--	Agri. Research	Load Bearing Masonry	Satisfactory
Van Es	20,576	177,000	1910	1962	Multipurpose	Wood Frame with Brick	Demolition
Maintenance Building	23,057	414,269	1950	1971	Maintenance	Load Bearing Masonry	Satisfactory
Maintenance Bulter Building	4,000	16,000	1949	--	Warehouse	Steel Frame	Satisfactory
Shepperd Arena	24,988	280,000	1951	--	Instr. Lab	Rein. Concrete Frame	Satisfactory
Corn Seed House	9,899	117,000	1950	--	Agri. Research	Rein. Concrete Frame	Satisfactory
Waldron Lab (Field Corps)	61,480	763,000	1958	1968	Agri. Research	Steel Frame	Satisfactory

TABLE 3

INSTITUTION - NORTH DAKOTA STATE UNIVERSITY

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Bldg. and Grounds Quonset	4,000	23,000	1949	--	Warehouse	Steel Frame	Satisfactory
Stockbridge	53,826	721,000	1956	--	Mens Res.	Load Bearing Masonry	Satisfactory
Bison Court	39,328	494,000	1956	1958	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
North Stands (Stadium)	29,040	132,000	1954	--	Stadium	Rein. Concrete Frame	Satisfactory
South Stands (Stadium)	60,076	231,635	1972	--	Stadium	Steel Frame	Satisfactory
Longwell	2,400	11,000	1949	--	Warehouse	Wood Frame with Brick	Satisfactory
Peed Property	2,328	22,000	1949	--	Other	Steel Frame	Satisfactory
West Court Laundry	690	316,700	1958	--	Utility & Power	Wood Frame	Satisfactory
Sudro Hall	35,635	860,201	1959	1970	Classroom	Load Bearing Masonry	Satisfactory
Walster Hall	48,356	736,000	1960	--	Admin. Office	Rein. Concrete Frame	Satisfactory
Reed Hall	46,136	692,000	1961	--	Mens Res.	Steel Frame	Satisfactory
Burgum Hall	35,266	531,000	1961	--	Womens Res.	Steel Frame	Satisfactory
Weible Hall	36,494	560,000	1963	--	Womens Res.	Steel Frame	Satisfactory
Johnson Hall	42,973	653,000	1963	--	Mens Res.	Steel Frame	Satisfactory
Food Service Center	26,627	548,000	1964	--	Cafeteria	Steel Frame	Satisfactory
Laundry NDSU	3,283	67,000	1967	1967	Other	Load Bearing Masonry	Satisfactory
South Weible Hall	38,610	590,000	1965	--	Womens Res.	Steel Frame	Satisfactory

TABLE 3

INSTITUTION - NORTH DAKOTA STATE UNIVERSITY

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Pharmacy Radiation Lab	1,508	17,559	1963	--	Inst. Lab	Rein. Conc. Walls	Satisfactory
Engineering Admin.	9,579	174,000	1965	--	Faculty Office	Rein. Conc. Frame	Satisfactory
Architecture and Arch. Engr.	17,632	320,000	1965	--	Classroom	Load Bearing Masonry	Satisfactory
Elec. & Electronics Engr.	23,201	420,000	1965	--	Classroom	Steel Frame	Satisfactory
Civil and Industrial Engr.	29,240	530,000	1965	--	Classroom	Load Bearing Masonry	Satisfactory
Sevrinson Hall	65,360	1,100,000	1966	--	Mens Res.	Steel Frame	Satisfactory
Thompson Hall	65,360	1,100,000	1966	--	Womens Res.	Steel Frame	Satisfactory
Askanase Hall	18,766	472,000	1968	--	Multipurpose	Steel Frame	Satisfactory
Stevens Hall (Bio. Bldg.)	50,372	1,271,000	1968	--	Instr. Lab	Rein. Conc. Frame	Satisfactory
Potato Stor. Pesticide Pch.	6,048	95,000	1966	--	Agri. Res.	Load Bearing Masonry	Satisfactory
Field House	168,345	3,078,000	1971	--	Multipurpose	Steel Frame	Satisfactory
Mobill Halls	15,000	87,000	1969	--	Womens Res.	Other	Demolition
University Village	228,775	3,300,000	1970	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
Auxiliary Enterprises	16,489	300,000	1971	--	Other	Steel Frame	Satisfactory
West Hi Rise	64,696	1,510,538	1972	--	CoEd Res.	Steel Frame	Satisfactory
West Dining Center	25,772	893,127	1972	--	Cafeteria	Rein. Concrete Frame	Satisfactory
Sugar Beet Research Lab	3,136	88,477	1971	--	Agri. Res.	Load Bearing Masonry	Satisfactory
TOTAL	2,387,089	34,711,891					

TABLE 3

INSTITUTION - UNIVERSITY OF NORTH DAKOTA

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Twamley Hall	61,562	1,327,000	1962	--	Admin. Office	Rein. Concrete Frame	Demolition
Med. Sci. and Ireland	26,880	720,526	1959	1963	Instr. Lab	Rein. Concrete Frame	Satisfactory
Med. Sci. and Ireland	78,501	1,707,123	1948	1953	Instr. Lab	Rein. Concrete Frame	Satisfactory
Science Hall	27,562	298,178	1901	--	Instr. Lab	Load Bearing Masonry	Remodeling B
Biology	25,730	389,987	1918	--	Instr. Lab	Rein. Concrete Frame	Remodeling B
Babcock	23,699	250,059	1908	--	Instr. Lab	Load Bearing Masonry	Demolition
Chandler Hall	36,445	335,013	1899	--	Instr. Lab	Load Bearing Masonry	Demolition
Chester Fritz Library	78,208	1,287,412	1961	--	Library	Rein. Concrete Frame	Satisfactory
Armory	21,644	264,130	1918	--	Field House	Load Bearing Masonry	Remodeling C
Womens Gym	12,708	134,186	1907	--	Gymnasium	Load Bearing Masonry	Remodeling C
Chester Fritz Auditorium	84,927	3,150,000	1972	--	Auditorium	Steel Frame	Satisfactory
Gamble Hall	88,034	1,837,606	1968	--	Classroom	Rein. Concrete Frame	Satisfactory
Budge Hall	17,248	182,782	1899	--	Multipurpose Off.	Load Bearing Masonry	Remodeling C
Law	31,198	544,344	1923	1973	Classroom	Load Bearing Masonry	Satisfactory
Oxford	8,400	106,187	1908	--	Multipurpose In.	Load Bearing Masonry	Termination
Home Economics	17,619	258,003	1908	--	Instructor Lab	Load Bearing Masonry	Remodeling B

TABLE 3

INSTITUTION - UNIVERSITY OF NORTH DAKOTA

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Merrifield Hall	74,840	1,131,214	1929	--	Classroom	Rein. Concrete Frame	Remodeling A
Transmitter	603	20,270	1936	--	Other Instr.	Wood Frame with Brick	Satisfactory
Unit Operation Lab	5,822	94,502	1942	--	Instr. Lab	Light Weight Metal	Satisfactory
Power Plant	13,681	1,263,370	1909	1973	Heating Plant	Load Bearing Masonry	Satisfactory
Harrington Hall	53,289	1,050,839	1952	1971	Classroom	Rein. Concret Frame	Satisfactory
Winter Sports	46,160	149,353	1936	--	Warehouse	Light Weight Metal	Satisfactory
Education	46,686	1,531,000	1954	1972	Classroom	Rein. Concrete Frame	Satisfactory
Stadium	8,000	250,071	1927	--	Stadium	Rein. Concrete Frame	Remodeling A
Field House and Gym	127,024	1,702,416	1951	--	Gymnasium	Load Bearing Masonry	Satisfactory
Hancock Hall	26,421	577,370	1952	--	Mens Res.	Load Bearing Masonry	Satisfactory
Johnstone Hall	35,786	593,466	1952	--	Womens Res.	Load Bearing Masonry	Satisfactory
Fulton Hall	36,809	606,949	1956	--	Womens Res.	Load Bearing Masonry	Satisfactory
Bek Hall	45,129	893,603	1957	--	Womens Res.	Load Bearing Masonry	Satisfactory
Walsh Hall	72,765	1,520,044	1959	1962	Mens Res.	Load Bearing Masonry	Satisfactory
Winter Sports Center	90,958	2,100,000	1972	--	Winter Sports	Steel Frame	Satisfactory
Presidents Residence	4,417	50,326	1956	--	Faculty Ho.	Load Bearing Masonry	Satisfactory
McCannel - Rehab.	39,441	1,121,634	1957	1962	Other	Rien. Concrete Frame	Satisfactory

TABLE 3

INSTITUTION - UNIVERSITY OF NORTH DAKOTA

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
East Hall	11,806	140,321	1941	--	Mens Res.	Wood Frame	Remodeling A
University Center	117,333	2,911,897	1951	1964	Combin. Cafe	Rein. Concrete Frame	Satisfactory
Abbot Hall	44,809	1,143,679	1961	--	Instr. Lab	Rein. Concrete Frame	Satisfactory
West Green Laundry	1,105	4,400	1963	--	Other Res.	Wood Frame	Remodeling C
Bldg. and Grounds Shop	12,500	104,743	1940	1961	Maintenance	Wood Frame	Demolition
Robertson-Sayre Hall	21,392	375,041	1908	1930	Classroom	Load Bearing Masonry	Remodeling A
Storage Bldg. & Grounds	960	1,650	1940	--	Warehouse	Wood Frame	Demolition
Oxford Garage	406	1,926	1947	--	Warehouse	Load Bearing Masonry	Satisfactory
Memorial Corp.	695	18,000	1915	--	Other	Wood Frame	Demolition
Golf Course Mtc. Building	927	2,200	1945	--	Maintenance	Wood Frame	Satisfactory
West Green 1	30,661	414,971	1957	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
Corwin-Larimore Halls	19,135	378,366	1910	--	Multipurpose In	Load Bearing Masonry	Remodeling A
UND Press	6,989	63,296	1947	--	Student Press	Wood Frame	Demolition
Depot Apartments	1,138	17,677	1916	1946	Admin. Office	Wood Frame	Satisfactory
Retort Bldg.-Pilot Plant	917	24,447	1944	--	Utility & Power	Steel Frame	Satisfactory
Dwelling 8	3,024	27,500	1972	--	Other	Wood Frame	Satisfactory

TABLE 3

27

INSTITUTION - UNIVERSITY OF NORTH DAKOTA

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Riverdale Units	19,695	207,956	1959	--	Mar. Stu. Ho.	Wood Frame	Remodeling A
Biology Res. (Emerado)	1,105	3,000	1945	--	Phys. & Nat.	Wood Frame	Remodeling C
Metal Storage Building	1,576	6,050	1942	--	Warehouse	Light Weight Metal	Satisfactory
Smith Hall	66,741	1,405,256	1963	--	Mens Res.	Load Bearing Masonry	Satisfactory
Burtness Theater	19,378	383,373	1963	--	Auditorium	Rein. Concrete Frame	Satisfactory
Squires Hall	88,673	1,734,994	1963	--	Womens Res.	Load Bearing Masonry	Satisfactory
Eight - Plexes	56,475	1,500,000	1963	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
West Green IV	68,424	1,379,013	1966	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
Witmer Hall	66,189	1,352,109	1967	--	Classroom	Rein. Concrete Frame	Satisfactory
Storage	5,065	43,621	1947	--	Maintenance	Wood Frame	Satisfactory
Central Bakery and Meat	5,520	43,621	1941	--	Other	Wood Frame	Satisfactory
Six Plexes	48,600	442,811	1959	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
Montgomery	37,345	373,200	1911	--	Multipurpose In	Load Bearing Masonry	Satisfactory
Industrial Technology	10,638	88,033	1947	--	Instr. Lab	Wood Frame	Demolition
West Green Steam House	182	1,100	1963	--	Utility & Power	Wood Frame with Brick	Satisfactory
Dwelling 1	956	5,000	1932	--	Faculty Ho.	Wood Frame	Remodeling C
Dwelling 2	1,980	18,648	1936	--	Faculty Ho.	Wood Frame	Satisfactory

TABLE 3

INSTITUTION - UNIVERSITY OF NORTH DAKOTA

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Indian Cult. Center	2,794	27,057	1948	--	Other	Wood Frame	Satisfactory
Occupational Therapy	7,410	101,382	1947	--	Instr. Lab	Wood Frame	Demolition
Garage 1	240	826	1932	--	Garage	Wood Frame	Demolition
Weather Station Trailer	456	3,850	1967	--	Other General	Light Weight Metal	Satisfactory
Biology Res. (Inkster)	1,105	4,126	1946	--	Phys. & Nat.	Wood Frame	Satisfactory
Golf Course House	3,616	22,000	1960	--	Other	Wood Frame	Satisfactory
Hutments	72,930	363,000	1946	--	Mar. Stu. Ho.	Wood Frame	Remodeling C
West Green V-1	21,900	386,400	1971	--	Mar. Stu. Ho.	Wood Frame	Satisfactory
Transmitter Building (New)	192	7,700	1968	--	Utility & Power	Other	Demolition
T C Laundry	960	6,876	1946	--	Other Res.	Load Bearing Masonry	Demolition
T C Laundry - Block	1,105	21,126	1958	--	Other Res.	Load Bearing Masonry	Satisfactory
Leonard Hall	68,876	940,000	1964	--	Classroom	Rein. Concrete Frame	Satisfactory
West Hall	67,331	1,330,844	1964	--	Mens Res.	Load Bearing Masonry	Satisfactory
McVey Hall	67,331	1,320,704	1965	--	Mens Res.	Load Bearing Masonry	Satisfactory
Brannon Hall	67,331	1,321,644	1966	--	Mens Res.	Load Bearing Masonry	Satisfactory
Selke Hall	67,331	1,300,389	1967	--	Womens Res.	Load Bearing Masonry	Satisfactory
Gillette	67,331	1,271,730	1968	--	Womens Res.	Rein. Concrete Frame	Satisfactory

TABLE 3

INSTITUTION - UNIVERSITY OF NORTH DAKOTA

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Wilkerson	51,993	1,392,065	1968	--	Cafeteria	Rein. Concrete Frame	Satisfactory
Utility Bldg. - West Green	2,956	38,500	1966	--	Other Serv.	Wood Frame	Satisfactory
Geol. Core Shed	9,744	50,725	1961	--	Engineer Res.	Light Weight Metal	Satisfactory
Dwelling - 4	876	15,000	1955	--	Mar. Stu. Ho.	Wood Frame	Satisfactory
West Green V (72 Plex)	48,975	993,600	1971	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
West Green VI	17,709	210,000	1971	--	Mar. Stu. Ho.	Wood Frame with Brick	Satisfactory
Upson 1	47,203	1,063,290	1971	--	Instr. Lab	Rein. Concrete Frame	Satisfactory
West Green VII	62,796	897,000	1972	--	Mar. Stu. Ho.	Wood Frame with Brick	Satisfactory
Thormodsgard Law Library	28,040	736,500	1973	--	Library	Rein. Concrete Frame	Satisfactory
Gas Meter Building	196	2,000	1966	--	Utility & Power	Rein. Concrete Walls	Satisfactory
Rehabilitation Hospital	132,979	3,818,845	1973	--	Other General	Steel Frame	Satisfactory
Hughes Fine Arts Center	91,773	2,540,369	1974	--	Instr. Lab	Rein. Concrete Frame	Satisfactory
Upson II	42,830	1,127,000	1974	--	Classroom	Steel Frame	Satisfactory
Plant Services (New)	25,255	450,000	1974	--	Maintenance	Rein. Concrete Walls	Satisfactory
Central Foods (New)	18,207	417,900	1974	--	Warehouse	Rein. Concrete Walls	Satisfactory
Automotive Shop	3,755	115,344	1974	--	Garage	Rein. Concrete Walls	Satisfactory
Central Warehouse (New)	11,558	150,000	1974	--	Warehouse	Rein. Concrete Walls	Satisfactory
TOTAL	3,255,619	64,514,654					

TABLE 3

INSTITUTION - DICKINSON STATE COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Married Student Housing	5,878	76,000	1961	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
Married Student Housing	5,878	76,000	1961	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
Married Student Housing	5,878	77,000	1961	--	Mar. Stu. Ho.	Load Bearing Masonry	Satisfactory
Presidents Home	4,851	38,000	1959	--	Other Res.	Wood Frame	Satisfactory
Power House	7,030	221,000	1921	--	Heating Pl	Load Bearing Masonry	Satisfactory
Shop and Garage	4,314	46,000	1937	1964	Maintenance	Wood Frame with Brick	Satisfactory
May Hall	88,008	1,465,000	1923	1952	Faculty Office	Steel Frame	Remodeling A
Murphy Hall	25,609	448,000	1962	--	Classroom	Rein. Concrete Walls	Satisfactory
Student Union	47,276	958,000	1962	1966	Combin. Cafe	Steel Frame	Satisfactory
Scott Gym	24,408	421,000	1953	--	Gymnasium	Steel Frame	Satisfactory
Library	30,601	518,000	1961	--	Library	Load Bearing Masonry	Satisfactory
Klinefelter Hall	30,601	549,000	1931	--	Womens Res.	Load Bearing Masonry	Satisfactory
Stickney Hall	13,680	242,000	1921	--	Womens Res.	Steel Frame	Satisfactory
Selke Hall	22,138	387,000	1960	--	Mens Res.	Load Bearing Masonry	Satisfactory
Woods Hall	37,244	575,000	1964	--	Womens Res.	Steel Frame	Satisfactory

TABLE 3

INSTITUTION - DICKINSON STATE COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Pulver Hall	36,125	577,000	1966	--	Mens Res.	Steel Frame	Satisfactory
Delong Hall	36,379	759,000	1970	--	Womens Res.	Steel Frame	Satisfactory
Wienbergen Hall	38,000	850,000	1973	--	Classroom	Steel Frame	Satisfactory
TOTAL	463,898	8,283,000					

TABLE 3

INSTITUTION - MAYVILLE STATE COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
FieldHouse Gym	44,128	806,000	1929	1960	Field House	Steel Frame	Satisfactory
West Hall	26,225	475,000	1908	--	Mens Res.	Load Bearing Masonry	Remodeling A
East Hall	26,171	445,000	1918	--	Womens Res.	Load Bearing Masonry	Remodeling A
Main Building	52,783	1,074,000	1890	1905	Multipurpose	Load Bearing Masonry	Remodeling B
Classroom Building	24,548	485,000	1969	--	Multipurpose	Steel Frame	Satisfactory
Root Cellar	800	9,000	1908	--	Other	Load Bearing Masonry	Satisfactory
Northwest Hall	4,950	69,000	1911	--	Womens Res.	Load Bearing Masonry	Satisfactory
Agassiz Hall	52,061	824,000	1969	--	Co-Ed Res.	Steel Frame	Satisfactory
Power House and Garage	5,758	361,000	1908	1967	Heating Pl.	Wood Frame with Brick	Satisfactory
Coal House	1,208	12,000	1913	--	Warehouse	Load Bearing Masonry	Satisfactory
Garage	1,320	9,000	1953	--	Garage	Wood Frame	Satisfactory
North Hall	2,862	27,000	1941	--	Mar. Stu. Ho.	Wood Frame	Demolition
Birkelo Hall and Addn.	22,903	448,000	1957	1964	Mens Res.	Steel Frame	Satisfactory
Science - Library Bldg.	32,078	585,000	1959	1967	Multipurpose	Steel Frame	Satisfactory
Berg Hall	20,201	426,000	1960	--	Womens Res.	Steel Frame	Satisfactory
Student Union	27,945	612,000	1967	--	Combin. Cafe	Steel Frame	Satisfactory

TABLE 3

INSTITUTION - MAYVILLE STATE COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Presidents Home	4,364	49,000	1955	---	Faculty Ho.	Wood Frame	Satisfactory
Faculty Housing Complex	8,196	102,000	1959	---	Faculty Ho.	Wood Frame	Satisfactory
W Student Housing	2,961	42,000	1947	---	Mar. Stu. Ho.	Wood Frame	Satisfactory
E Student Housing	6,062	48,000	1947	---	Mar. Stu. Ho.	Wood Frame	Satisfactory
Dahls House	2,004	8,000	1919	---	Mar. Stu. Ho.	Wood Frame	Demolition
TOTAL	369,528	6,916,000					

TABLE 3

INSTITUTION - MINOT STATE COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Main Building	84,586	1,299,225	1913	1950	Multipurpose	Other	Remodeling A
Campus School	21,881	371,098	1930	--	Demonstration	Rein. Concrete Walls	Satisfactory
Swain Hall	50,248	624,503	1951	--	Classroom	Rein. Concrete Walls	Remodeling A
Science Hall	44,909	938,688	1961	1967	Instr. Lab	Rein. Concrete Frame	Satisfactory
Administration	33,300	640,059	1963	--	Admin. Offices	Steel Frame	Satisfactory
Memorial Library	30,670	486,395	1959	--	Library	Steel Frame	Remodeling A
Pioneer Hall	38,510	400,705	1913	1967	Mens Res.	Rein. Concrete Frame	Remodeling C
Crane Hall	28,253	484,813	1960	--	Mens Res.	Steel Frame	Satisfactory
McCulloch Hall	28,354	487,523	1960	--	Womens Res.	Steel Frame	Satisfactory
Dakota Hall	23,492	376,962	1931	--	Womens Res.	Rein. Concrete Frame	Remodeling A
Cook Hall	36,008	664,722	1966	--	Womens Res.	Steel Frame	Satisfactory
Central Heating Plant	13,550	502,254	1913	1967	Utility & Power	Load Bearing Masonry	Satisfactory
Maintenance Building	7,000	50,000	1967	--	Garage	Load Bearing Masonry	Satisfactory
Student Union	65,222	1,150,517	1961	1970	Combin. Cafe	Steel Frame	Satisfactory
College Barracks	15,618	80,000	1945	--	Mar. Stu. Ho.	Wood Frame	Demolition

TABLE 3

INSTITUTION - MINOT STATE COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Presidents Residence	3,947	60,125	1936	--	Faculty Ho.	Wood Frame	Satisfactory
Green House	560	12,000	1969	--	Instr. Lab	Load Bearing Masonry	Satisfactory
Amphitheater	2,240	81,974	1971	--	Auditorium	Wood Frame	Satisfactory
Harnett Hall	29,583	1,000,000	1974	--	Classroom Aud.	Rein. Concrete Walls	Satisfactory
TOTAL	557,931	9,711,563					

TABLE 3

INSTITUTION - VALLEY CITY STATE COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
McCarthy Hall	25,564	116,000	1930	1967	Classroom	Steel Frame	Satisfactory
Power Plant	5,024	208,000	1910	--	Utility & Power	Load Bearing Masonry	Satisfactory
Old Lab School Building	23,625	103,000	1905	--	Admin. Offices	Wood Frame with Brick	Satisfactory
McFarland Hall	19,254	84,000	1892	1937	Classroom	Load Bearing Masonry	Satisfactory
Old Science Building	22,243	97,000	1903	--	Classroom	Load Bearing Masonry	Satisfactory
Auditorium	27,680	101,000	1907	1967	Classroom	Wood Frame with Brick	Remodeling A
Industrial Arts	12,000	30,000	1911	--	Classroom	Load Bearing Masonry	Remodeling C
Allen Memorial Building	25,551	259,000	1952	1966	Library	Load Bearing Masonry	Satisfactory
Womens Phy Ed Building	16,640	60,000	1923	--	Classroom	Load Bearing Masonry	Satisfactory
Foss Hall	17,880	375,000	1963	--	Classroom	Steel Frame	Satisfactory
New Phy Ed Bldg. & Fld House	32,591	450,000	1960	--	Classroom	Other	Satisfactory
Memorial Student Union	50,594	1,000,000	1962	1970	Combin. Cafe	Rein. Concrete Walls	Satisfactory
Green House	543	8,000	1963	--	Other Instr.	Glass Building	Satisfactory
Kolstoe Hall	35,200	669,000	1967	--	Mens Res.	Steel Frame	Satisfactory
McCoy Hall	24,665	406,000	1964	--	Womens Res.	Steel Frame	Satisfactory
Mythaler Hall	20,275	898,626	1956	--	Womens Res.	Steel Frame	Satisfactory

TABLE 3

INSTITUTION - VALLEY CITY STATE COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Married Student Housing	11,060	200,000	1967	--	Mar. Stu. Ho.	Wood Frame with Brick	Satisfactory
Presidents House	5,118	10,000	1901	--	Faculty Ho.	Wood Frame	Remodeling B
Robertson Hall	17,576	240	1962	--	Mens Res.	Steel Frame	Satisfactory
McCoy Hall Addition	1,609	35,000	1905	--	Heating Plant	Wood Frame with Brick	Remodeling C
Ind. Tech. Lab Building	2,500	4,000	1931	--	Garage	Load Bearing Masonry	Satisfactory
Stone Warehouse	2,400	2,000	1940	--	Warehouse	Other	Remodeling A
Store House 1	1,440	1,000	1920	--	Warehouse	Wood Frame	Satisfactory
Service & Storage Building	4,500	36,000	1971	--	Maintenance	Light Wt. Metal	Satisfactory
Snoeyenbos Hall	34,504	720,000	1971	--	Womens Res.	Other	Satisfactory
Science Center	33,859	1,000,000	1973	--	Multipurpose	Steel Frame	Satisfactory
TOTAL	473,895	6,872,866					

TABLE 3

INSTITUTION - BISMARCK JUNIOR COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Main	56,778	1,063,000	1961	1964	Classroom	Rein. Concrete Frame	Satisfactory
Burleigh City Mem. Armory	13,681	450,000	1962	--	Field House	Load Bearing Masonry	Satisfactory
Dormitory Student Center	34,965	662,000	1965	--	Mens Res.	Steel Frame	Satisfactory
Area Vocational	15,000	120,000	1933	1966	Multipurpose	Other	Demolition
Library Classroom	26,106	548,493	1968	--	Library	Steel Frame	Satisfactory
Girls Dormitory	21,305	576,363	1971	--	Womens Res.	Steel Frame	Satisfactory
Student Union	31,602	850,000	1974	--	Comb Cafe	Steel Frame	Satisfactory
TOTAL	199,437	4,269,856					

TABLE 3

INSTITUTION - NDSU BOTTINEAU BRANCH

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Old Main	17,962	444,000	1907	--	Multipurpose	Other	Demolition
Thatcher Hall	39,494	836,000	1950	1965	Multipurpose	Other	Satisfactory
Mead Hall	24,713	623,000	1959	1963	Mens Res.	Load Bearing Masonry	Satisfactory
Gross Hall	15,338	328,000	1962	--	Womens Res	Load Bearing Masonry	Satisfactory
Heating Plant	2,351	206,000	1949	1965	Heating Plant	Other	Satisfactory
Greenhouse	6,383	49,000	1941	1960	Classroom	Load Bearing Masonry	Satisfactory
Garage	891	2,400	1939	--	Garage	Wood Frame	Demolition
Forest Service Shop	3,360	18,000	1966	--	Maintenance	Steel Frame	Satisfactory
Student Center	4,995	102,000	1966	--	Student Union	Load Bearing Masonry	Satisfactory
New Dorm	18,877	400,000	1971	--	Mens Res.	Load Bearing Masonry	Satisfactory
Environmental Sci Center	16,500	455,268	1973	--	Instr. Lab	Load Bearing Masonry	Satisfactory
TOTAL	150,864	3,463,668					

TABLE 3

INSTITUTION - LAKE REGION JUNIOR COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Main Building	57,883	1,000,000	1966	--	Classroom	Load Bearing Masonry	Satisfactory
Vocational Shop	25,110	350,000	1969	--	Instr. Lab	Steel Frame	Satisfactory
Technical Wing	12,989	180,000	1969	--	Instr. Lab	Steel Frame	Satisfactory
Mens Dormitory Phase I	10,582	200,000	1966	--	Mens Res.	Load Bearing Masonry	Satisfactory
Womens Dormitory Phase I	10,582	200,000	1966	--	Womens Res.	Load Bearing Masonry	Satisfactory
Mens Dormitory Phase II	7,765	175,000	1968	--	Mens Res.	Load Bearing Masonry	Satisfactory
Womens Dormitory Phase II	7,765	175,000	1968	--	Womens Res.	Load Bearing Masonry	Satisfactory
Union	39,182	725,000	1966	1973	Combin. Cafe	Wood Frame with Brick	Satisfactory
Co-ed Dormitory	26,023	660,000	1973	--	Co-Ed Res.	Wood Frame with Brick	Satisfactory
TOTAL	197,881	3,665,000					

TABLE 3

INSTITUTION - UND-WILLISTON CENTER

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Main Building	60,887	1,302,000	1967	--	Multipurpose	Load Bearing Masonry	Demolition
Auto Mechanics Bldg.	16,604	150,000	1972	1974	Instr. Lab	Light Wt. Metal	Satisfactory
Old Post Office	12,321	100,000	1924	1940	Classroom	Rein. Concrete Walls	Remodeling C
Foundation Hall (Dorm)	15,344	81,000	1973	--	Mens Res.	Wood Frame	Satisfactory
TOTAL	105,156	1,633,000					

TABLE 3

INSTITUTION - NORTH DAKOTA STATE SCHOOL OF SCIENCE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Trade Tech. Building I	54,934	1,051,400	1927	1938	Multipurpose	Rein. Concrete Frame	Remodeling A
Trade Tech. Building II	36,863	609,350	1961	--	Instr. Lab	Steel Frame	Remodeling A
Bute Gym	25,603	534,600	1950	1965	Gymnasium	Steel Frame	Remodeling B
Trade Tech. Building III	17,870	273,500	1956	1969	Instr. Lab	Steel Frame	Remodeling B
Babcock Hall	30,950	697,000	1963	--	Mens Res.	Steel Frame	Satisfactory
Satterlee Hall	31,170	668,000	1964	--	Mens Res.	Steel Frame	Satisfactory
McMahon Hall	30,970	697,000	1959	--	Womens Res.	Steel Frame	Satisfactory
Auto Body Building	12,460	207,800	1907	--	Instr. Lab	Load Bearing Masonry	Remodeling A
Annex Building (Health Center)	6,420	110,800	1942	1952	Classroom	Wood Frame	Demolition
Auditorium	17,375	341,800	1911	1965	Multipurpose	Load Bearing Masonry	Demolition
Student Center	74,446	1,656,500	1961	1969	Student Union	Steel Frame	Satisfactory
Schulz Hall	26,282	528,610	1971	--	Womens Res.	Load Bearing Masonry	Satisfactory
Walton Hall	29,211	598,000	1969	--	Womens Res.	Load Bearing Masonry	Satisfactory
Forkner Hall & Addn.	41,218	876,407	1966	1971	Womens Res.	Load Bearing Masonry	Satisfactory
Riley Hall	16,500	384,600	1954	--	Womens Res.	Load Bearing Masonry	Remodeling B
Burch Hall	26,148	571,300	1909	1969	Mens Res.	Load Bearing Masonry	Satisfactory

TABLE 3

INSTITUTION - NORTH DAKOTA STATE SCHOOL OF SCIENCE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Haverty Hall	41,217	926,450	1964	--	Multipurpose	Load Bearing Masonry	Remodeling A
Heating Plant	8,827	752,800	1951	1971	Heating Plant	Load Bearing Masonry	Satisfactory
Old Main	32,390	732,500	1891	1970	Multipurpose	Wood Frame with Brick	Satisfactory
Auto Mechanics I	11,398	157,700	1947	--	Instr. Lab	Wood Frame	Demolition
Plumbing and Storage	2,494	46,700	1935	--	Instr. Lab	Wood Frame	Demolition
Library	36,992	725,000	1969	--	Library	Steel Frame	Satisfactory
Barnard Hall	45,251	758,000	1967	--	Multipurpose	Steel Frame	Satisfactory
Student Apartment	12,584	200,850	1945	--	Mar. Stu. Ho.	Wood Frame	Demolition
Robertson Hall	67,226	1,248,000	1968	--	Mens Res.	Steel Frame	Satisfactory
Norgaard Hall	69,090	1,500,000	1973	--	Mens Res.	Other	Satisfactory
College Complex (Married)	28,159	500,000	1971	--	Mar. Stu. Ho.	Other	Satisfactory
Alumni Stadium	17,445	200,000	1971	--	Stadium	Rein. Concrete Frame	Satisfactory
Lillegard Building	17,351	255,000	1920	--	Multipurpose	Load Bearing Masonry	Remodeling A
Environmental System	18,368	330,000	1974	--	Instr. Lab	Steel Frame	Satisfactory
Diesel	51,163	950,000	1974	--	Instr. Lab	Steel Frame	Satisfactory
TOTAL	938,375	19,089,667					

TABLE 3

INSTITUTION - JAMESTOWN COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Taber Hall	18,870	265,000	1913	--	Admin. Offices	Load Bearing Masonry	Satisfactory
Voorhees Hall	15,642	274,000	1918	--	Multipurpose	Load Bearing Masonry	Satisfactory
Westminster Hall	24,253	484,000	1960	--	Combin. Cafe	Load Bearing Masonry	Satisfactory
Kroeze Hall	43,752	871,000	1957	--	Womens Res.	Load Bearing Masonry	Satisfactory
Orlady Hall	18,145	300,000	1941	--	Instr. Lab	Steel Frame	Satisfactory
Memorial Gymnasium	20,428	290,000	1923	--	Field House	Load Bearing Masonry	Remodeling A
Thaw Library	6,124	73,000	1912	--	Multi-Office	Load Bearing Masonry	Satisfactory
Watson Hall	24,792	421,000	1931	--	Mens Res.	Steel Frame	Satisfactory
Sanford Hall	18,296	233,000	1910	1969	Mens Res.	Load Bearing Masonry	Satisfactory
Little Theater	3,750	29,000	1946	--	Auditorium	Wood Frame	Satisfactory
New Womens Residence	15,756	225,000	1967	--	Womens Res.	Wood Frame	Satisfactory
New Mens Residence	15,756	225,000	1967	--	Married Student	Wood Frame	Remodeling A
Rauqust Library	45,540	1,243,307	1971	--	Library	Steel Frame	Satisfactory
TOTAL	271,104	4,933,307					

TABLE 3

INSTITUTION - MARY COLLEGE

BUILDING	GROSS SQ. FT.	REPLACEMENT VALUE	DATE CONST.	DATE REMOD.	PRIMARY FUNCTION	TYPE OF CONSTRUCTION	BUILDING CONDITION
Science Hall	42,577	1,765,000	1968	--	Classroom	Rein. Concrete Walls	Satisfactory
Auditorium	6,926	287,000	1968	--	Auditorium	Load Bearing Masonry	Satisfactory
Student Center	31,862	864,000	1968	--	Cafeteria	Rein. Concrete Walls	Satisfactory
Dormitory	59,087	1,604,000	1968	--	Womens Res.	Rein. Concrete Walls	Satisfactory
Priory Building	78,800	2,500,000	1962	--	Multipurpose	Load Bearing Masonry	Satisfactory
Activity Center	31,900	1,000,000	1973	--	Gymnasium	Rein. Concrete Walls	Satisfactory
TOTAL	251,152	8,020,000					

TABLE 4

GROSS AREA OF COLLEGE BUILDINGS BY OWNERSHIP

	INSTITUT.	GROSS SQ. FT. OWNED BY INSTITUTION # BLDGS.	GROSS SQ. FT. OWNED BY INSTITUTION GROSS SQ. FT.	%	GROSS SQ. FT. NOT OWNED BY INSTITUTION # BLDGS.	GROSS SQ. FT. NOT OWNED BY INSTITUTION GROSS SQ. FT.	%	TOTAL GROSS SQ. FT. USED BY INSTITUTION # BLDGS.	TOTAL GROSS SQ. FT. USED BY INSTITUTION GROSS SQ. FT.
Public 4-Year	NDSU	68	2,387,089	100.0	--	--	--	68	2,387,089
	UND	99	3,254,924	100.0	1	695	--	100	3,255,619
	DSC	18	463,898	100.0	--	--	--	18	463,898
	MaSC	17	347,945	94.2	4	21,583	5.8	21	369,528
	MiSC	19	557,931	100.0	--	--	--	19	557,931
	VCSC	26	473,895	100.0	--	--	--	26	473,895
	TOTAL	247	7,485,682	99.7	5	22,278	.3	252	7,507,960
Public 2-Year	BJC	6	185,756	93.1	1	13,681	6.9	7	199,437
	NDSU-BB	11	150,864	100.0	--	--	--	11	150,864
	LRJC	9	197,881	100.0	--	--	--	9	197,881
	UND-WC	4	105,156	100.0	--	--	--	4	105,156
	SSS	30	921,024	98.2	1	17,351	1.8	31	938,375
	TOTAL	60	1,560,681	98.1	2	31,032	1.9	62	1,591,713
Private	JC	13	271,104	100.0	--	--	--	13	271,104
	MC	5	172,352	68.6	1	78,800	31.4	6	251,152
	TOTAL	18	443,456	84.9	1	78,800	15.1	19	522,256
	TOTAL ALL INSTITUT.	325	9,489,819	98.6	8	132,110	1.4	333	9,621,929

GRAPH 1

GROSS AREA OF BUILDING SPACE

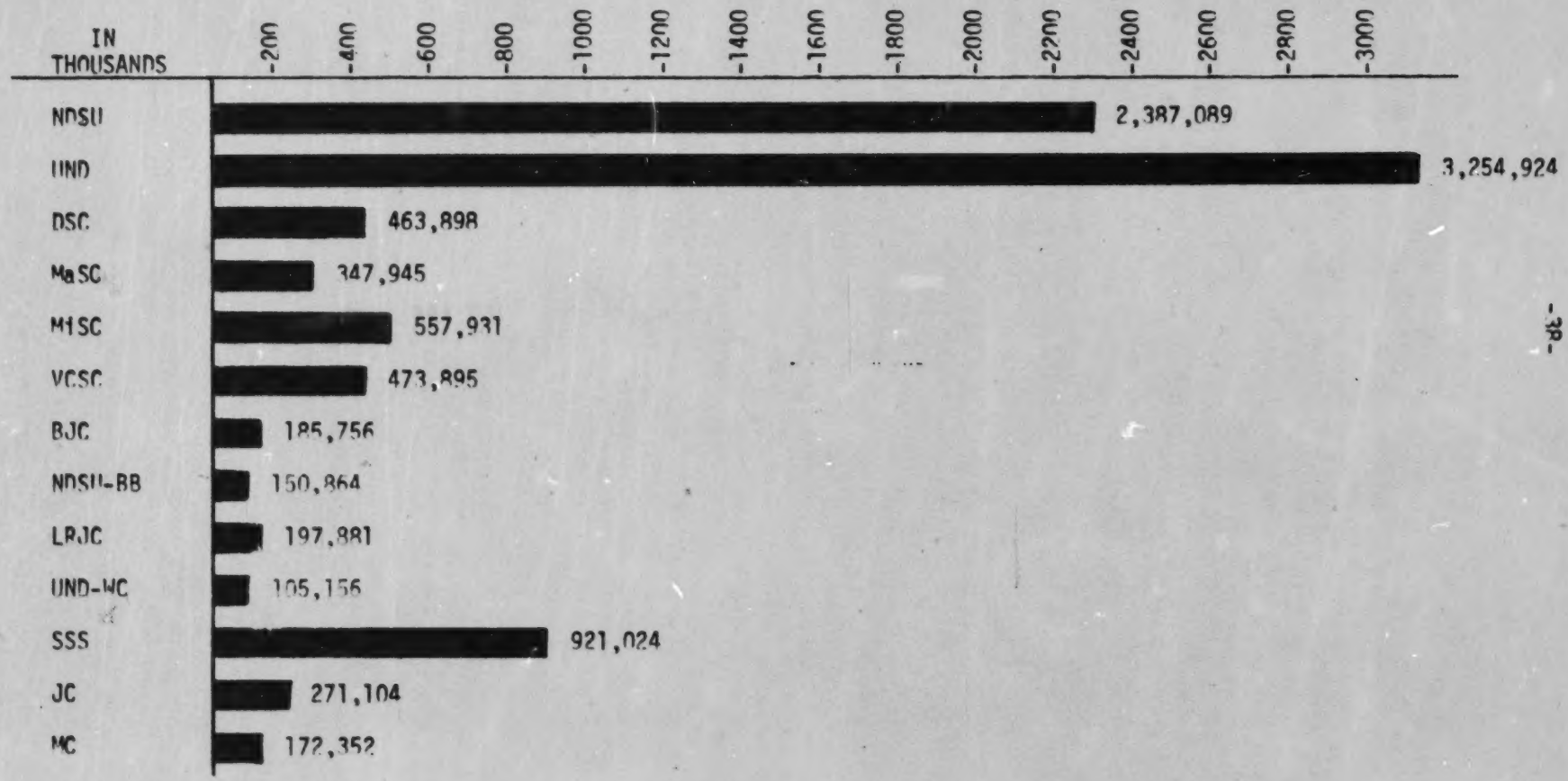


TABLE 5

DATE OF ORIGINAL CONSTRUCTION OF COLLEGE BUILDINGS

	INSTITUT.	BEFORE 1921 # BLDGS.	BEFORE 1921 GROSS SQ. FT.	BEFORE 1921 %	BETWEEN 1921-1940 # BLDGS.	BETWEEN 1921-1940 GROSS SQ. FT.	BETWEEN 1921-1940 %	BETWEEN 1941-1960 # BLDGS.	BETWEEN 1941-1960 GROSS SQ. FT.	BETWEEN 1941-1960 %
Public 4-Year	NDSU	11	372,625	17.0	6	190,046	8.7	26	725,674	33.2
	UND	15	284,441	8.7	10	177,437	5.5	35	951,004	29.2
	DSC	--	--	--	5	143,633	31.0	3	51,397	11.1
	MaSC	8	119,899	32.4	1	44,128	12.0	9	100,947	27.3
	MiSC	3	136,646	24.5	3	49,320	8.8	5	153,143	27.5
	VCSC	9	117,993	24.9	4	47,104	9.9	3	78,417	16.6
	TOTAL	46	1,031,604	14.1	29	651,668	8.9	81	2,060,582	28.2
Public 2-Year	BJC	--	--	--	1	15,000	7.5	--	--	--
	NDSU-BB	1	17,962	11.9	1	891	.6	4	72,941	48.3
	LRJC	--	--	--	--	--	--	--	--	--
	UND-WC	--	--	--	1	12,321	11.7	--	--	--
	SSS	5	105,724	11.3	2	57,428	6.1	8	130,172	13.9
	TOTAL	6	123,686	7.8	5	85,640	5.4	12	203,113	12.7
Private	JC	4	58,932	21.7	2	45,220	16.7	4	89,900	33.2
	MC	--	--	--	--	--	--	--	--	--
	TOTAL	4	58,932	11.3	2	45,220	8.7	4	89,900	17.2
	TOTAL ALL INSTITUT.	56	1,214,222	12.9	36	782,528	8.3	97	2,353,595	25.0

TABLE 5--Continued

	INSTITUT.	BETWEEN 1961-1970 # BLDGS.	GROSS SQ. FT.	%	AFTER 1970 # BLDGS.	GROSS SQ. FT.	%
Public 4-Year	NDSU	19	760,230	25.6	6	338,514	15.5
	UND	24	1,110,848	34.1	16	731,889	22.5
	DSC	9	230,868	49.7	1	38,000	8.2
	MaSC	3	104,554	28.3	--	--	--
	MiSC	6	186,999	33.5	2	31,823	5.7
	VCSC	7	157,518	33.2	3	72,863	15.4
	TOTAL	68	2,551,017	32.2	28	1,213,089	16.6
Public 2-Year	BJC	4	131,530	66.0	2	52,907	26.5
	NDSU-BB	3	23,693	15.7	2	35,377	23.5
	LRJC	8	171,858	86.8	1	26,023	13.2
	UND-WC	1	60,887	57.9	2	31,948	30.4
	SSS	10	434,544	46.3	6	210,507	22.4
	TOTAL	26	822,512	51.7	13	356,762	22.4
Private	JC	2	31,512	11.6	1	45,540	16.8
	MC	5	219,252	87.3	1	31,900	12.7
	TOTAL	7	250,764	48.0	2	77,440	14.8
	TOTAL ALL INSTITUT.	101	3,624,293	36.3	43	1,647,291	17.5

GRAPH 2

DATE OF ORIGINAL CONSTRUCTION OF COLLEGE BUILDINGS

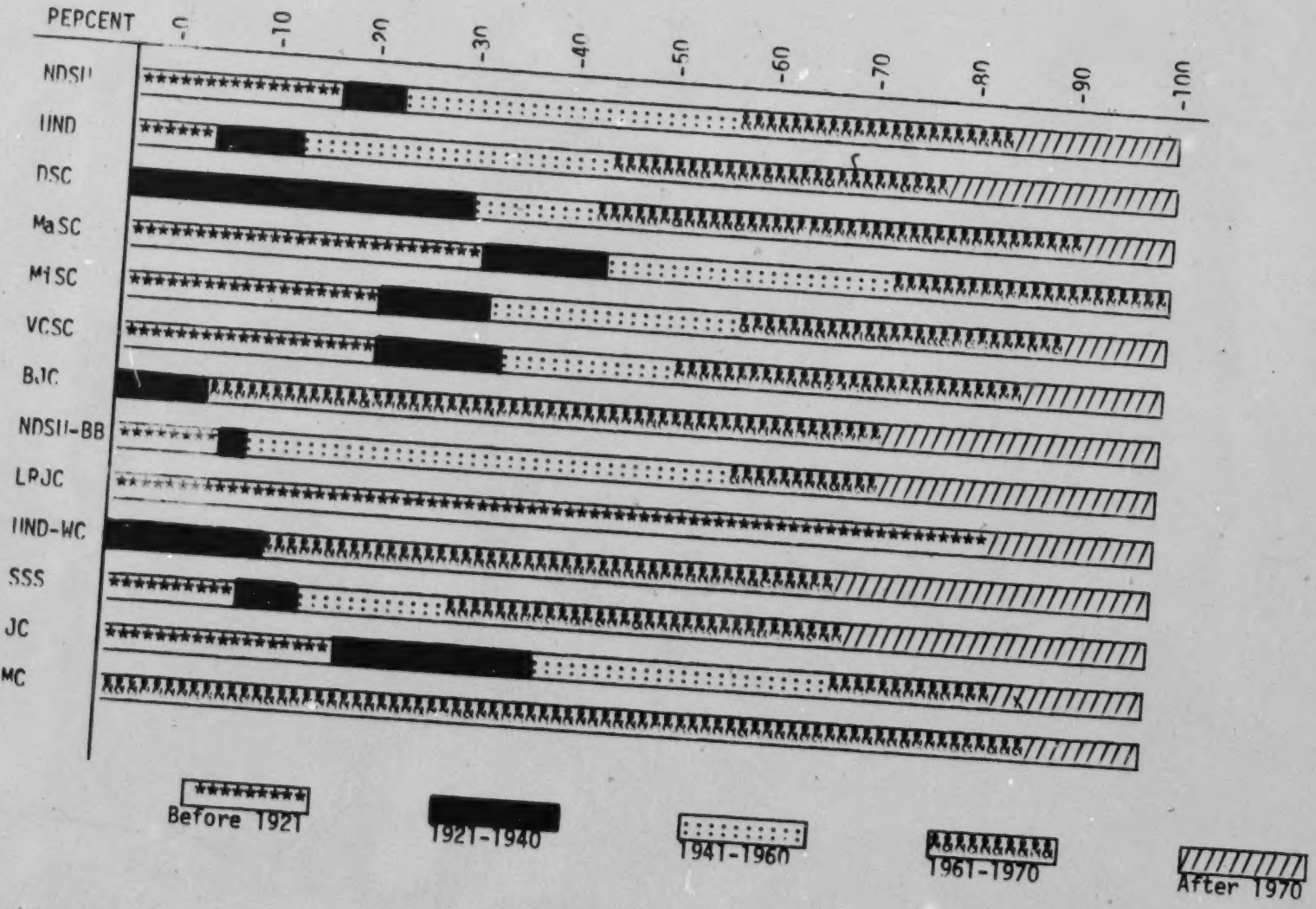


TABLE 6

BUILDING PERMANENCE

	INSTITUT.	PERMANENT CONSTRUCTION # BLDGS.	PERMANENT CONSTRUCTION GROSS SQ. FT.	PERMANENT CONSTRUCTION %	TEMPORARY CONSTRUCTION # BLDGS.	TEMPORARY CONSTRUCTION GROSS SQ. FT.	TEMPORARY CONSTRUCTION %	TOTAL # BLDGS.	TOTAL GROSS SQ. FT.
Public 4-Year	NDSU	63	2,310,288	96.5	5	76,801	3.5	68	2,387,089
	UND	83	3,109,801	95.5	17	145,818	4.5	100	3,255,619
	NSC	18	463,898	100.0	--	--	--	18	463,898
	MaSC	18	357,643	96.8	3	11,885	3.2	21	369,528
	MiSC	17	538,366	96.5	2	19,565	3.5	19	557,931
	[illegible]	[illegible]	467,337	98.6	2	6,558	1.4	[illegible]	473,895
	[illegible]	223	7,247,333	96.4	29	260,627	3.6	[illegible]	7,507,960
Public 2-Year	BJC	7	199,437	100.0	--	--	--	7	199,437
	NDSU-BB	10	149,973	99.4	1	891	.6	11	150,864
	LRJC	9	197,881	100.0	--	--	--	9	197,881
	UND-WC	3	92,835	88.3	1	12,321	11.7	4	105,156
	SSS	27	905,479	96.5	4	32,896	3.5	31	938,375
	TOTAL	56	1,545,605	97.1	6	46,108	2.9	62	1,591,713
Private	JC	12	267,354	98.6	1	3,750	1.4	13	271,104
	MC	6	251,152	100.0	--	--	--	6	251,152
	TOTAL	18	518,506	99.3	1	3,750	.7	19	522,256
	TOTAL ALL INSTITUT.	297	9,311,444	96.7	36	310,485	3.3	333	9,621,929

Building Inventory

The second section of Part I will address itself to a summary of gross areas according to various building characteristics. The building as a unit is considered here rather than the inside room area. The latter space will be reported in the third section of Part I. The square foot figures reported in this section are gross areas: i.e., the sums of the floor areas within the outside faces of exterior walls for all stories, or areas, which have floor surfaces. Table 3 is a list of all institutional buildings.

Of the 9,621,929 gross square feet of building space in use by colleges in North Dakota, nearly 34 percent is located on the campus of the University of North Dakota. Graph 1 illustrates the amount and proportion of gross area at each institution.

Only 1.4 percent of the gross area in use by the North Dakota colleges in not owned by them (Table 4). The local school district at UND-Williston Center holds title to its buildings and two dormitories at Jamestown College were constructed by a private corporation. Most of the remainder of the space in this category is owned by alumni or similar groups.

Over fifty percent of college space was constructed since 1960. Table 5 illustrates the number of buildings, gross area, and percent of the total area constructed during five time periods. The same information is presented in Graph 2.

Table 6 categorized the gross building areas according to the permanency of the buildings. War surplus buildings used for housing are examples of structures classified as temporary. Over 96 percent of North Dakota college space is considered permanent.

TABLE 7

REPLACEMENT VALUE OF COLLEGE BUILDINGS

	INSTITUT.	TOTAL REPLACEMENT VALUE NON-HOUSING BLDGS.	TOTAL REPLACEMENT VALUE HOUSING BLDGS.	TOTAL REPLACEMENT VALUE TOTAL	SQUARE FOOT BUILDING REPLACEMENT VALUES NON-HOUSING BLDGS.	SQUARE FOOT BUILDING REPLACEMENT VALUES HOUSING BLDGS.	SQUARE FOOT BUILDING REPLACEMENT VALUES TOTAL
Public 4-Year	NDSU	22,134,353	12,577,538	34,711,891	14.09	15.42	14.54
	UND	43,581,213	20,933,441	64,514,654	21.00	17.73	19.82
	DSC	4,927,000	3,356,000	8,283,000	18.58	16.89	17.86
	MaSC	3,953,000	2,963,000	6,916,000	20.74	16.56	18.72
	MiSC	7,156,713	2,554,850	9,711,563	18.65	14.67	17.41
	VCSC	3,969,000	2,903,966	6,872,966	12.19	19.57	14.50
	TOTAL	85,721,279	45,288,695	131,009,974	17.82	16.80	17.44
Public 2-Year	BJC	3,031,493	1,238,363	4,269,856	21.17	22.01	21.41
	NDSU-BB	2,112,668	1,351,000	3,463,668	22.98	22.93	22.96
	LRJC	2,255,000	1,410,000	3,665,000	16.68	22.48	18.52
	UND-WC	1,552,000	81,000	1,633,000	17.28	5.28	15.53
	SSS	10,619,900	8,469,767	19,089,667	20.08	20.68	20.34
	TOTAL	19,571,061	12,550,130	32,121,191	19.79	20.82	20.18
Private	JC	2,958,307	1,975,000	4,933,307	19.37	16.69	18.20
	MC	6,416,000	1,604,000	8,020,000	33.41	27.15	31.93
	TOTAL	9,374,307	3,579,000	12,953,307	27.19	20.17	24.80
	TOTAL ALL INSTITUT.	114,666,647	61,417,825	176,084,472	18.65	17.67	18.30

TABLE 8

AMOUNT OF BUILDING FUNDS BY SOURCE
FOR COLLEGE BUILDINGS CONSTRUCTED SINCE 1964

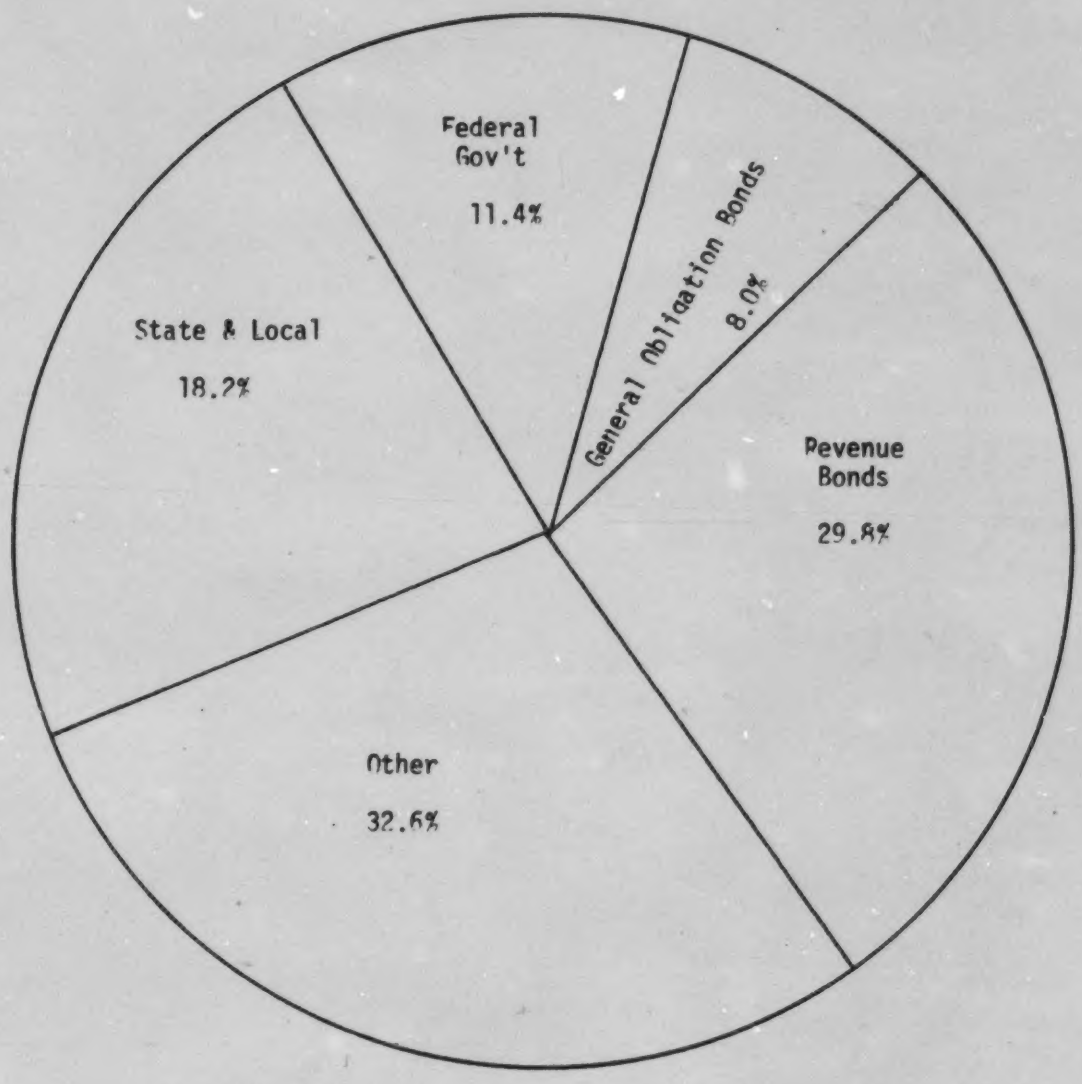
	INSTITUT.	BLDGS.	STATE & LOCAL AMOUNT	STATE & LOCAL %	FEDERAL GOV'T AMOUNT	FEDERAL GOV'T %	GEN. OBLIGATION BONDS AMOUNT	GEN. OBLIGATION BONDS %
Public 4-Year	NDSU	20	3,887,000	29.9	1,493,000	11.5	590,000	4.5
	UND	30	5,836,652	18.2	2,300,411	7.2	3,167,900	9.9
	DSC	3	850,000	39.7	717,662	33.5	--	--
	MaSC	3	320,000	18.0	158,000	8.9	--	--
	ISC	5	800,000	49.3	12,000	.7	50,000	3.1
	VCSC	6	36,000	.4	--	--	--	--
	TOTAL	67	11,729,652	19.9	4,681,073	7.9	3,807,900	6.4
Public 2-Year	BJC	4	--	--	219,397	10.6	--	--
	NDSU-BB	4	227,634	23.8	227,634	23.8	490,000	51.3
	LRJC	9	110,000	3.0	1,987,000	55.2	625,000	17.4
	UND-WC	3	350,000	24.0	441,000	30.4	--	--
	SSS	13	2,620,000	29.8	594,345	6.8	--	--
	TOTAL	33	3,307,634	19.6	3,469,376	20.6	1,115,000	6.6
Private	JC	3	--	--	615,542	36.3	308,000	18.2
	MC	5	--	--	642,000	11.7	1,481,000	27.1
	TOTAL	8	--	--	1,257,542	17.5	1,789,000	24.9
	TOTAL ALL INSTITUT.	108	15,037,286	18.2	9,407,991	11.4	6,711,900	8.0

TABLE 8--Continued

	INSTITUT.	REVENUE BONDS AMOUNT	%	OTHER AMOUNT	%	TOTAL AMOUNT
Public 4-Year	NDSU	2,998,000	23.0	4,045,000	31.1	13,013,000
	UND	12,293,600	38.3	8,473,234	26.4	32,071,797
	DSC	575,000	26.8	--	--	2,142,662
	MaSC	1,100,000	61.7	204,000	11.4	1,782,000
	MiSC	600,000	37.0	160,000	9.9	1,622,000
	VCSC	1,178,000	14.0	7,191,800	85.6	8,405,800
	TOTAL	18,744,600	31.7	20,074,034	34.1	59,037,259
Public 2-Year	BJC	1,347,000	65.4	494,096	24.0	2,060,493
	NDSU-BB	--	--	10,000	1.0	955,268
	LRJC	750,000	20.9	125,000	3.5	3,597,000
	UND-WC	431,000	29.7	231,000	15.9	1,453,000
	SSS	1,500,000	17.0	4,073,000	46.4	8,787,345
	TOTAL	4,028,000	23.9	4,933,096	29.3	16,853,106
Private	JC	--	--	770,548	45.5	1,694,090
	MC	2,020,000	36.8	1,339,000	24.4	5,482,000
	TOTAL	2,020,000	28.1	2,109,548	29.4	7,176,090
	TOTAL ALL INSTITUT.	24,792,600	29.8	27,116,678	32.6	83,066,455

GRAPH 3

CONSTRUCTION FUNDS BY SOURCE FOR COLLEGE
BUILDINGS CONSTRUCTED SINCE 1964



GRAPH 4

CONSTRUCTION FUNDS BY SOURCE FOR COLLEGE BUILDINGS SINCE 1964

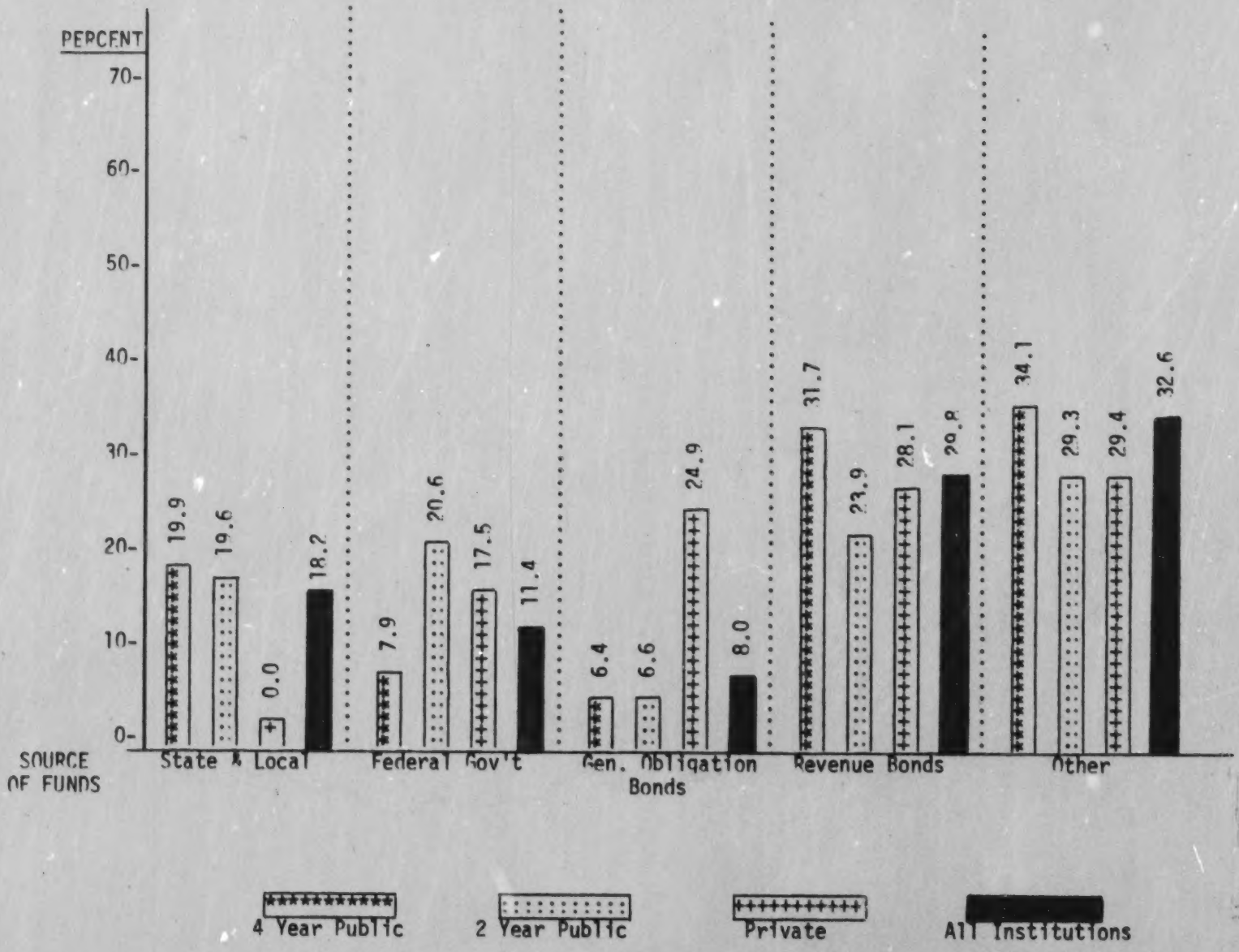


TABLE 9

COST SUMMARY OF LATEST COLLEGE BUILDINGS

BUILDING	EDUCATION & GENERAL				RESIDENTIAL				STUDENT SERVICE & AUXILIARIES			
	YEAR BUILD	GROSS SQ. FT.	TOTAL COST	COST SQ. FT.	YEAR BUILD	GROSS SQ. FT.	TOTAL COST	COST SQ. FT.	YEAR BUILD	GROSS SQ. FT.	TOTAL COST	COST SQ. FT.
NDSSS - Diesel	1974	51,163	864,345	16.89								
UND-Hughes Fine Arts Center	1974	91,773	2,540,369	27.68								
MiSC-Harnett Hall	1974	29,583	800,000	27.04								
NDSSS-Norgaard Hall					1973	69,090	1,500,000	21.71				
UND-WC-Foundation Hall					1973	15,344	81,000	5.28				
UND-West Green VII					1972	62,796	897,000	14.28				
NDSU-West Dining Center									1972	25,772	893,127	34.65
MC-Activity Center									1973	31,900	963,000	30.19
BJC-Student Union									1974	31,602	850,000	26.90

TABLE 10

TYPE OF BUILDING CONSTRUCTION

		WOOD FRAME			STEEL FRAME			REINFORCED CONCRETE		
	INSTITUT.	# BLDGS.	GROSS SQ. FT.	%	# BLDGS.	GROSS SQ. FT.	%	# BLDGS.	GROSS SQ. FT.	%
Public 4-Year	NDSU	9	169,274	7.1	22	844,794	35.4	34	1,349,737	56.5
	UND	29	279,220	8.6	7	398,141	12.2	59	2,524,052	77.5
	DSC	2	9,165	2.0	8	321,120	69.2	8	133,613	28.8
	MaSC	8	33,527	9.1	7	223,864	60.6	6	112,137	30.3
	MiSC	3	21,805	3.9	6	221,807	39.8	9	229,733	41.1
	VCSC	6	70,532	14.9	7	175,019	36.9	8	153,806	32.5
	TOTAL	57	583,523	7.8	57	2,184,745	29.0	124	4,503,078	60.0
Public 2-Year	BJC	--	--	--	4	113,978	57.1	2	70,459	35.4
	NDSU-BB	1	891	.6	1	3,360	2.2	6	86,806	57.5
	LRJC	2	65,205	32.9	2	38,099	19.3	5	94,577	47.8
	UND-WC	1	15,344	14.6	--	--	--	2	73,208	69.6
	SSS	5	65,286	7.0	12	466,872	49.7	12	308,968	32.9
	TOTAL	9	146,726	9.2	19	622,309	39.1	27	634,018	39.8
Private	JC	3	35,262	13.0	3	88,477	32.6	7	147,365	54.4
	MC	--	--	--	--	--	--	6	251,152	100.0
	TOTAL	3	35,262	6.8	3	88,477	16.9	13	398,517	76.3
	TOTAL ALL INSTITUT.	69	765,511	8.0	79	2,895,531	30.1	164	5,535,613	57.5

TABLE 10--Continued

	INSTITUT.	LIGHT WEIGHT METAL # BLDGS.	LIGHT WEIGHT METAL GROSS SQ. FT.	LIGHT WEIGHT METAL %	OTHER # BLDGS.	OTHER GROSS SQ. FT.	OTHER %
Public 4-Year	NDSU	1	500	--	2	22,784	1.0
	UND	4	54,014	1.7	1	192	--
	DSC	--	--	--	--	--	--
	MaSC	--	--	--	--	--	--
	MiSC	--	--	--	1	84,586	15.2
	VCSC	1	4,500	.9	4	70,038	14.8
	TOTAL	6	59,014	.8	8	177,600	2.4
Public 2-Year	BJC	--	--	--	1	15,000	7.5
	NDSU-BB	--	--	--	3	59,807	39.7
	LRJC	--	--	--	--	--	--
	UND-WC	1	16,604	15.8	--	--	--
	SSS	--	--	--	2	97,249	10.4
	TOTAL	1	16,604	1.1	6	172,056	10.8
Private	JC	--	--	--	--	--	--
	MC	--	--	--	--	--	--
	TOTAL	--	--	--	--	--	--
	TOTAL ALL INSTITUT.	7	75,618	.8	14	349,656	3.6

09

TABLE 11

AIR CONDITIONING IN COLLEGE BUILDINGS

	INSTITUT.	COMPLETELY AIR CONDITIONED # BLDGS.	COMPLETELY AIR CONDITIONED GROSS SQ. FT.	COMPLETELY AIR CONDITIONED %	PARTIALLY AIR CONDITIONED # BLDGS.	PARTIALLY AIR CONDITIONED GROSS SQ. FT.	PARTIALLY AIR CONDITIONED %	OTHER # BLDGS.	OTHER GROSS SQ. FT.	OTHER %
Public 4-Year	NDSU	12	380,235	15.9	19	812,416	34.0	37	1,194,438	50.1
	UND	14	998,071	30.7	22	707,798	21.7	64	1,549,750	47.6
	DSC	4	127,894	27.6	3	130,859	28.2	11	205,145	44.2
	MaSC	1	27,945	7.6	1	32,078	8.7	19	309,505	83.7
	MiSC	1	29,583	5.3	4	174,101	31.2	14	354,247	63.5
	VCSC	1	33,859	7.1	2	76,145	16.1	23	363,891	76.8
	TOTAL	33	1,597,587	21.9	51	1,933,397	26.4	168	3,976,976	51.7
Public 2-Year	BJC	3	79,013	39.6	1	13,681	6.9	3	106,743	53.5
	NDSU-BB	--	--	--	--	--	--	11	150,864	100.0
	LRJC	1	39,182	19.8	1	57,883	29.3	7	100,816	50.9
	UND-WC	--	--	--	--	--	--	4	105,156	100.0
	SSS	1	36,992	4.0	9	307,278	32.7	21	594,105	63.3
	TOTAL	5	155,187	9.7	11	378,842	23.8	46	1,057,684	66.5
Private	JC	3	77,052	28.4	1	6,124	2.3	9	187,928	69.3
	MC	--	--	--	--	--	--	6	251,152	100.0
	TOTAL	3	77,052	14.7	1	6,124	1.2	15	439,080	84.1
	TOTAL ALL INSTITUT.	41	1,829,826	19.0	63	2,318,363	24.1	229	5,473,740	56.9

TABLE 12

COLLEGE BUILDING BY FUNCTION

	INSTITUT.	INSTRUCTION # BLDGS.	INSTRUCTION GROSS SQ. FT.	INSTRUCTION-RES. RELATED # BLDGS.	INSTRUCTION-RES. RELATED GROSS SQ. FT.	RESEARCH # BLDGS.	RESEARCH GROSS SQ. FT.	GENERAL OFFICE # BLDGS.	GENERAL OFFICE GROSS SQ. FT.
Public 4-Year	NDSU	20	776,705	2	7,896	10	258,106	4	151,985
	UND	30	1,248,888	2	133,435	3	11,954	3	79,948
	DSC	4	118,618	--	--	--	--	1	88,008
	MaSC	3	109,409	--	--	--	--	--	--
	MiSC	6	240,556	1	21,881	--	--	1	33,300
	VCSC	11	233,805	--	--	--	--	1	23,625
	TOTAL	74	2,727,981	5	163,212	13	270,060	10	376,866
Public 2-Year	BJC	3	97,884	--	--	--	--	--	--
	NDSU-BB	4	80,339	--	--	--	--	--	--
	LRJC	3	95,982	--	--	--	--	--	--
	UND-WC	3	89,812	--	--	--	--	--	--
	SSS	16	428,149	--	--	--	--	--	--
	TOTAL	29	792,166	--	--	--	--	--	--
Private	JC	3	79,327	--	--	--	--	2	24,994
	MC	3	153,277	--	--	--	--	--	--
	TOTAL	6	232,604	--	--	--	--	2	24,994
	TOTAL ALL INSTITUT.	109	3,752,751	5	163,212	13	270,060	12	401,860

TABLE 12--Continued

	INSTITUT.	SERVICE RELATED # BLDGS.	SERVICE RELATED GROSS SQ. FT.	ASSEMBLY # BLDGS.	ASSEMBLY GROSS SQ. FT.	TOTAL EDUC. & GEN. # BLDGS.	TOTAL EDUC. & GEN. GROSS SQ. FT.	RESIDENTIAL # BLDGS.	RESIDENTIAL GROSS SQ. FT.	STUDENT SERV. & AUX. BLDGS. # BLDGS.	STUDENT SERV. & AUX. BLDGS. GROSS SQ. FT.
Public 4-Year	NDSU	7	45,927	3	154,279	46	1,394,898	15	815,699	7	176,492
	UND	18	144,733	5	224,907	61	1,843,865	30	1,180,349	9	231,405
	DSC	2	11,344	--	--	7	217,970	10	198,652	1	47,276
	MaSC	3	8,286	1	44,128	7	161,823	12	178,960	2	28,745
	MiSC	2	20,550	1	2,240	11	318,527	7	174,182	1	65,222
	VCSC	6	17,473	--	--	18	274,903	7	148,398	1	50,594
	TOTAL	38	248,313	10	425,554	150	4,211,986	81	2,696,240	21	599,734
Public 2-Year	BJC	--	--	1	13,681	4	111,565	2	56,270	1	31,602
	NDSU-BB	3	6,602	--	--	7	86,941	3	58,928	1	4,995
	LRJC	--	--	--	--	3	95,982	5	62,717	1	39,182
	UND-WC	--	--	--	--	3	89,812	1	15,344	--	--
	SSS	1	8,827	1	17,445	18	454,421	12	409,508	1	74,446
	TOTAL	4	15,429	2	31,126	35	838,721	23	602,767	4	150,225
Private	JC	--	--	2	24,178	7	128,499	5	118,352	1	24,253
	MC	--	--	1	6,926	4	160,203	1	59,087	1	31,862
	TOTAL	--	--	3	31,104	11	288,702	6	177,439	2	56,115
	TOTAL ALL INSTITUT.	42	263,742	15	487,784	196	5,339,409	110	3,476,446	27	806,074

TABLE 13

CONDITION OF COLLEGE BUILDINGS

	INSTITUT.	SATISFACTORY # BLDGS.	SATISFACTORY GROSS SQ. FT.	SATISFACTORY %	REMODELING A # BLDGS.	REMODELING A GROSS SQ. FT.	REMODELING A %	REMODELING B # BLDGS.	REMODELING B GROSS SQ. FT.	REMODELING B %
Public 4-Year	NDSU	56	1,980,167	82.9	2	59,177	2.5	4	193,285	8.1
	UND	71	2,731,454	83.9	6	154,868	4.7	3	70,911	2.2
	DSC	17	375,890	81.0	1	88,008	19.0	--	--	--
	MaSC	16	259,483	70.2	2	52,396	14.2	1	52,783	14.3
	MiSC	13	314,807	56.4	4	188,996	33.9	--	--	--
	VCSC	21	425,088	89.7	2	30,080	6.3	1	5,118	1.1
	TOTAL	194	6,086,889	81.1	17	573,525	7.6	9	322,097	4.3
Public 2-Year	BJC	6	184,437	92.5	--	--	--	--	--	--
	NDSU-BB	9	132,011	87.5	--	--	--	--	--	--
	LRJC	9	197,881	100.0	--	--	--	--	--	--
	UND-WC	2	31,948	30.4	--	--	--	--	--	--
	SSS	18	665,306	70.9	5	162,825	17.3	3	59,973	6.4
	TOTAL	44	1,211,583	76.1	5	162,825	10.2	3	59,973	3.8
Private	JC	11	234,920	86.7	2	36,184	13.3	--	--	--
	MC	6	251,152	100.0	--	--	--	--	--	--
	TOTAL	17	486,072	93.1	2	36,184	6.9	--	--	--
	TOTAL ALL INSTITUT.	255	7,784,544	80.8	24	772,534	8.1	12	382,070	4.0

TABLE 13--Continued

	INSTITUT.	REMODELING C # BLDGS.	REMODELING C GROSS SQ. FT.	REMODELING C %	DEMOLITION # BLDGS.	DEMOLITION GROSS SQ. FT.	DEMOLITION %	TERMINATION # BLDGS.	TERMINATION GROSS SQ. FT.	TERMINATION %
Public 4-Year	NDSU	1	40,209	1.7	5	114,251	4.8	--	--	--
	UND	7	127,696	3.9	12	162,290	5.0	1	8,400	.3
	DSC	--	--	--	--	--	--	--	--	--
	MaSC	--	--	--	2	4,866	1.3	--	--	--
	MiSC	1	38,510	6.9	1	15,618	2.8	--	--	--
	VCSC	2	13,609	2.9	--	--	--	--	--	--
	TOTAL	11	220,024	2.9	20	297,025	4.0	1	8,400	.1
Public 2-Year	BJC	--	--	--	1	15,000	7.5	--	--	--
	NDSU-BB	--	--	--	2	18,853	12.5	--	--	--
	LRJC	--	--	--	--	--	--	--	--	--
	UND-WC	1	12,321	11.7	1	60,887	57.9	--	--	--
	SSS	--	--	--	5	50,271	5.4	--	--	--
	TOTAL	1	12,321	.8	9	145,011	9.1	--	--	--
Private	JC	--	--	--	--	--	--	--	--	--
	MC	--	--	--	--	--	--	--	--	--
	TOTAL	--	--	--	--	--	--	--	--	--
	TOTAL ALL INSTITUT.	12	232,345	2.4	29	442,036	4.6	1	8,400	.1

GRAPH 5

CONDITION OF COLLEGE BUILDINGS

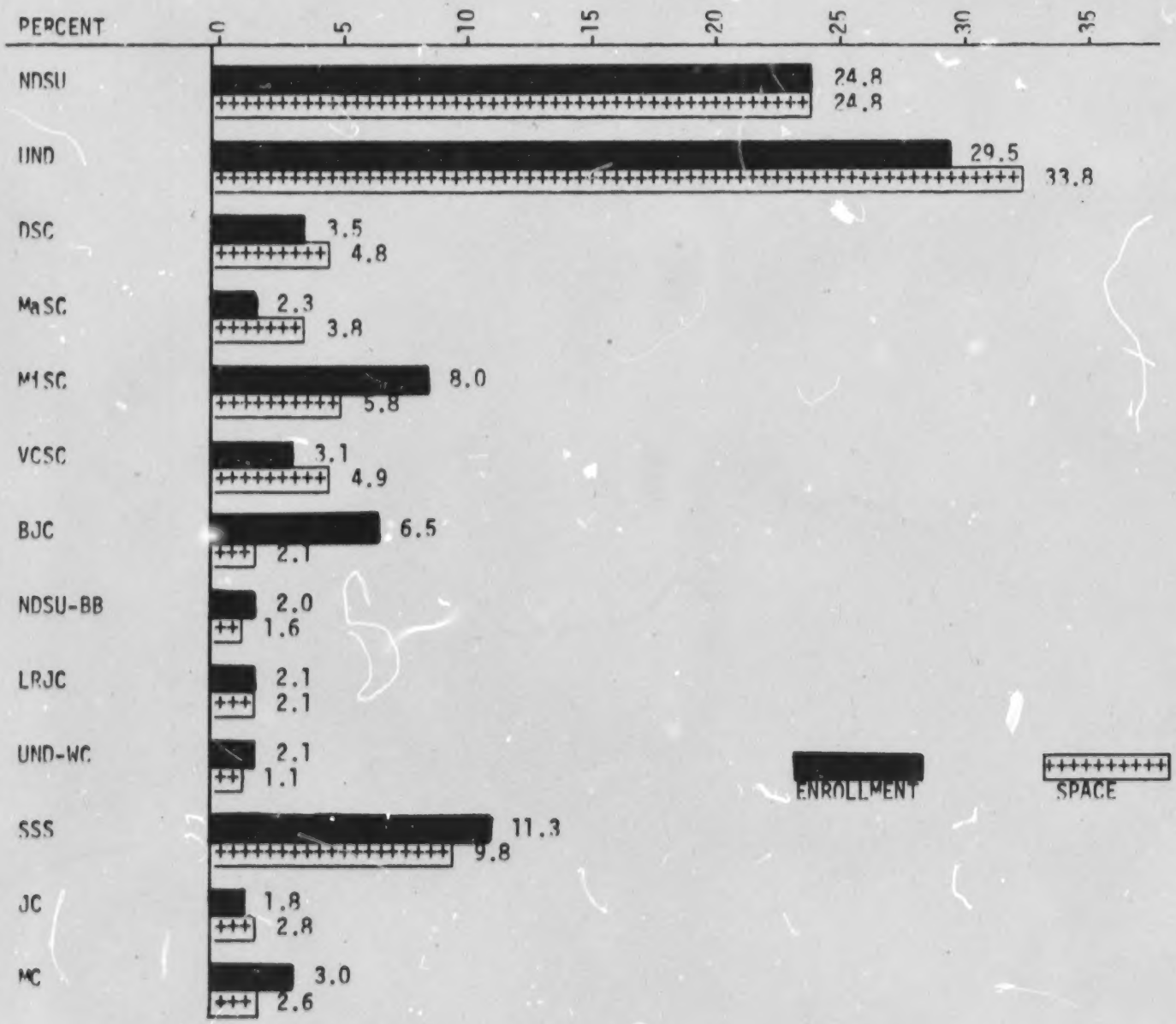
TABLE 14

AMOUNT OF GROSS SQUARE FEET OF COLLEGE BUILDING SPACE IN RELATION TO ENROLLMENT

	INSTITUT.	ENROLL-MENT	% OF STATE ENROLLMENT	TOTAL GROSS AREAS: TOTAL SQ. FT.	TOTAL GROSS AREAS: % OF STATE GROSS SQ. FT.	TOTAL GROSS AREAS: SQ. FT./ STUDENT	INSTRUCTIONAL & GENERAL USE AREAS: TOTAL SQ. FT.	INSTRUCTIONAL & GENERAL USE AREAS: % OF STATE GROSS SQ. FT.	INSTRUCTIONAL & GENERAL USE AREAS: SQ. FT./ STUDENT
Public 4-Year	NDSU	6,868	24.8	2,387,089	24.8	347.6	1,394,898	26.1	203.1
	UND	8,171	29.5	3,255,619	33.8	398.4	1,843,865	34.5	225.7
	DSC	974	3.5	463,898	4.8	476.3	217,970	4.1	223.8
	MSC	625	2.3	369,528	3.8	591.2	161,823	3.0	258.9
	MiSC	2,203	8.0	557,931	5.8	253.3	318,527	6.0	144.6
	VCSC	846	3.1	473,895	4.9	560.2	274,903	5.2	324.9
	TOTAL	19,687	71.3	7,507,960	77.9	381.4	4,211,986	78.9	213.9
Public 2-Year	BJC	1,812	6.5	199,437	2.1	110.1	111,565	2.1	61.6
	NDSU-BB	541	2.0	150,864	1.6	278.9	86,941	1.6	160.7
	LRJC	586	2.1	197,881	2.1	337.7	95,982	1.8	163.8
	UND-WC	580	2.1	105,756	1.1	181.3	89,812	1.7	154.8
	SSS	3,118	11.3	938,375	9.8	301.1	454,421	8.5	145.7
	TOTAL	6,637	24.0	1,591,713	16.7	239.8	838,721	15.7	126.4
Private	JC	487	1.8	271,104	2.8	556.7	128,499	2.4	263.9
	MC	822	3.0	251,152	2.6	305.5	160,203	3.0	194.9
	TOTAL	1,309	4.7	522,256	5.4	399.0	288,702	5.4	220.6
	TOTAL ALL INSTITUT.	27,633	100.0	9,621,929	100.0	348.2	5,339,409	100.0	193.2

GRAPH 6

GROSS SQUARE FEET OF COLLEGE BUILDING SPACE IN RELATION TO ENROLLMENT



College buildings are estimated to have replacement values totaling $176 million (Table 7). The replacement value per gross square foot ranges from $33.41 for non-housing buildings at Mary College to $12.19 for space in the same category at Valley City State College. This reflects the fact that the former includes all new buildings and the latter a high proportion of very old facilities.

Approximately 29 percent of the funds used for college building construction in North Dakota since 1964 has come from state, local and federal government sources. Table 8 summarizes the amount of funds received from various sources to construct 108 buildings or building units. The total amount of funds come to more than 83 million. Graphs 3 and 4 present the same proportions in graph form.

Table 9 shows the amount of funds used for recently constructed buildings. For Education and General buildings the square foot cost ranges from $16.89 to $27.68; Residential ranges from $5.28 to $21.71; Student Services and Auxiliaries the cost varies from $26.90 to $34.65.

Approximately 58 percent of the buildings on North Dakota campuses were constructed with reinforced concrete. The University of North Dakota, UND-Williston, and Mary College have utilized this type of construction to a great extent as presented in Table 10.

Approximately nineteen percent of the gross area in the state is served by central air conditioning systems. Most of this area is found at the two universities (Table 11).

Nearly one-half of the gross area of college space in North Dakota functions as residential and auxiliary service area. Buildings were classified according to the primary function they serve. Many buildings are multi-purpose structures which are used for several functions. These

secondary uses are not reflected in Tables 12 and 13. A more refined analysis of building space is found later in this Part when inside room areas are considered.

The condition of college buildings in the State is categorized and reported in Table 13 and Graph 5. The definitions used can be found in the introductory portion of this report.

Table 14 and Graph 6 compare the percent of gross area of North Dakota college buildings on campus to the percent of State's enrollment at each college. Table 14 also presents the gross area per student and the gross area of instructional and general use areas per student (residential and auxiliary service areas are excluded). Minot State College, Bismarck Junior College, and the State School of Science have substantially greater proportion of the State's enrollment than they have of the State's gross building area. The gross area per student ranged from 110.1 square feet at Bismarck Junior College to 591.2 square feet at Mayville State College. The 61.6 gross square feet per student of instructional and general use area at Bismarck Junior College was the lowest in the State.

Room Inventory

This section of Part I considers the individual room areas in the buildings which were the subject of the preceding section. The gross area summarized in the "Building Inventory" above are divided into several types of areas. The assignable area is that space which can be assigned for institutional use. Non-assignable areas include circulation, custodial, mechanical, and construction space. These areas have a fixed function and cannot be assigned another use. Table 15 indicates that approximately two-thirds of gross area of college buildings space in North Dakota is assignable. Walls and other construction features exclude over 12 percent of the gross area from use.

TABLE 15

SUMMARY OF BUILDING AREAS BY USE

	INSTITUT.	ASSIGNABLE AREA SQ. FT.	%	CUSTODIAL AREA SQ. FT.	%	CIRCULATION AREA SQ. FT.	%	MECHANICAL AREA SQ. FT.	%	CONSTRUCTION AREA SQ. FT.	%	TOTAL GROSS AREA SQ. FT.
Public 4-Year	NDSU	1,631,915	68.4	11,498	.5	286,553	12.0	139,343	5.8	317,780	13.3	2,387,089
	UND	2,145,547	65.9	9,855	.3	491,555	15.1	181,486	5.6	427,176	13.1	3,255,619
	DSC	309,266	66.6	19,805	4.3	49,084	10.6	24,466	5.3	61,277	13.2	463,898
	MaSC	249,677	67.6	1,158	.3	53,847	14.6	15,277	4.1	49,569	13.4	369,528
	MiSC	364,997	65.4	1,301	.2	76,275	13.7	29,411	5.3	85,947	15.4	557,931
	VCSC	307,554	64.9	2,593	.5	71,171	15.0	30,180	6.4	62,397	13.2	473,895
	TOTAL	5,008,956	66.7	46,210	.6	1,028,485	13.7	420,163	5.6	1,004,146	13.4	7,507,960
Public 2-Year	BJC	130,452	65.4	1,105	.6	31,648	15.9	14,592	7.3	21,640	10.8	199,437
	NDSU-BB	98,623	65.4	1,126	.7	18,075	12.0	7,661	5.1	25,379	16.8	150,864
	LRJC	136,047	68.7	3,914	2.0	33,438	16.9	9,323	4.7	15,159	7.7	197,881
	UND-WC	77,801	74.0	413	.4	13,536	12.9	7,211	6.8	6,195	5.9	105,156
	SSS	662,262	77.0	6,390	.7	130,588	13.9	47,688	5.1	91,447	3.3	938,375
	TOTAL	1,105,185	73.2	12,948	.8	227,285	14.3	86,475	5.4	159,820	6.3	1,591,713
Private	JC	202,805	74.8	1,262	.5	33,678	12.4	9,087	3.4	24,272	8.9	271,104
	MC	145,804	58.1	1,858	.7	42,620	17.0	15,349	6.1	45,521	18.1	251,152
	TOTAL	348,609	66.7	3,120	.6	76,298	14.6	24,436	4.7	69,793	13.4	522,256
TOTAL ALL INSTITUT.		6,462,750	67.8	62,278	.7	1,322,068	13.8	531,074	5.5	1,233,759	12.2	9,621,929

TABLE 16

ASSIGNABLE SPACE BY PRIMARY USE OF ROOM

	INSTITUT.	CLASSROOM SQ. FT.	%	LABORATORY SQ. FT.	%	OFFICE SQ. FT.	%	STUDY SQ. FT.	%	SPECIAL USE SQ. FT.	%
Public 4-Year	NDSU	81,600	5.0	353,311	21.7	176,724	10.8	47,071	2.9	201,695	12.4
	UND	129,942	6.0	277,265	12.9	256,374	11.9	95,225	4.5	152,261	7.1
	DSC	24,831	8.0	27,701	9.0	35,718	11.6	17,715	5.7	53,955	17.4
	MaSC	15,070	6.0	14,240	5.7	17,529	7.0	11,215	4.5	36,904	14.8
	MiSC	36,895	10.1	50,318	13.8	30,870	8.5	23,500	6.4	49,586	13.6
	VCSC	31,136	10.1	41,585	13.5	25,352	8.2	13,763	4.5	41,696	13.6
	TOTAL	319,474	6.4	764,420	15.3	542,567	10.8	208,489	4.2	536,097	10.7
Public 2-Year	BJC	24,956	19.1	21,159	16.2	10,046	7.7	11,695	9.0	12,712	9.7
	NDSU-BB	14,794	15.0	11,880	12.0	7,006	7.1	5,835	5.9	13,047	13.2
	LRJC	13,920	10.3	25,383	18.7	8,081	5.9	4,924	3.6	12,288	9.0
	UND-WC	9,901	12.7	25,187	32.4	8,798	11.3	5,114	6.6	10,376	13.3
	SSS	31,660	4.4	177,165	32.8	34,607	4.8	24,899	3.5	34,920	4.8
	TOTAL	95,231	8.2	260,774	27.5	68,538	5.9	52,467	4.5	83,343	7.2
Private	JC	13,155	6.5	12,329	6.0	17,355	8.6	19,770	9.8	13,261	6.5
	MC	8,465	5.8	12,851	8.8	12,075	8.3	9,754	6.7	23,988	16.4
	TOTAL	21,620	6.2	25,180	7.2	29,430	8.4	29,524	8.5	37,249	10.7
	TOTAL ALL INSTITUT.	436,325	6.7	1,050,374	17.0	640,535	9.8	290,480	4.4	656,689	10.1

TABLE 16--Continued

	INSTITUT.	GENERAL USE SQ. FT.	%	SUPPORTING SQ. FT.	%	MED. CARD SQ. FT.	%	RESIDENTIAL SQ. FT.	%	UNASSIGNED SQ. FT.	%	TOTAL ASSIGN. SQ. FT.
Public 4-Year	NDSU	116,424	7.1	99,839	6.1	5,538	.3	535,542	32.8	14,171	.9	1,631,915
	UND	275,895	12.9	171,199	8.0	57,275	2.7	723,338	33.7	6,773	.3	2,145,547
	DSC	51,700	16.7	8,837	2.9	--	--	88,413	28.6	396	.1	309,266
	MaSC	32,696	13.1	4,114	1.7	539	.2	110,955	44.4	6,415	2.6	249,677
	MiSC	58,218	16.0	15,402	4.2	792	.2	99,416	27.2	--	--	364,997
	VCSC	42,283	13.8	22,407	7.3	322	.1	82,530	26.8	6,480	2.1	307,554
	TOTAL	577,216	11.5	321,798	6.4	64,466	1.3	1,640,194	32.7	34,235	.7	5,008,956
Public 2-Year	BJC	25,582	19.6	774	.6	--	--	15,738	12.1	7,790	6.0	130,452
	NDSU-BB	6,147	6.2	5,375	5.5	169	.2	34,370	34.9	--	--	98,623
	LRJC	31,318	23.0	2,093	1.5	308	.2	37,732	27.8	--	--	136,047
	UND-WC	6,374	8.2	862	1.1	--	--	10,682	13.7	507	.7	77,801
	SSS	87,241	12.0	33,134	4.6	754	.1	235,207	32.6	2,675	.4	662,262
	TOTAL	156,662	13.4	42,238	3.6	1,231	.1	333,729	28.6	10,972	1.0	1,105,185
Private	JC	47,318	23.3	1,104	.6	--	--	78,513	38.7	--	--	202,805
	MC	33,568	23.0	4,197	2.9	555	.4	40,051	27.5	300	.2	145,804
	TOTAL	80,886	23.2	5,301	1.5	555	.2	118,564	34.0	300	.1	348,609
	TOTAL ALL INSTITUT.	814,764	12.5	369,337	5.7	66,252	1.0	2,092,487	32.1	45,507	.7	6,462,750

GRAPH 7

ASSIGNABLE SPACE BY ROOM TYPE
IN COLLEGE BUILDINGS

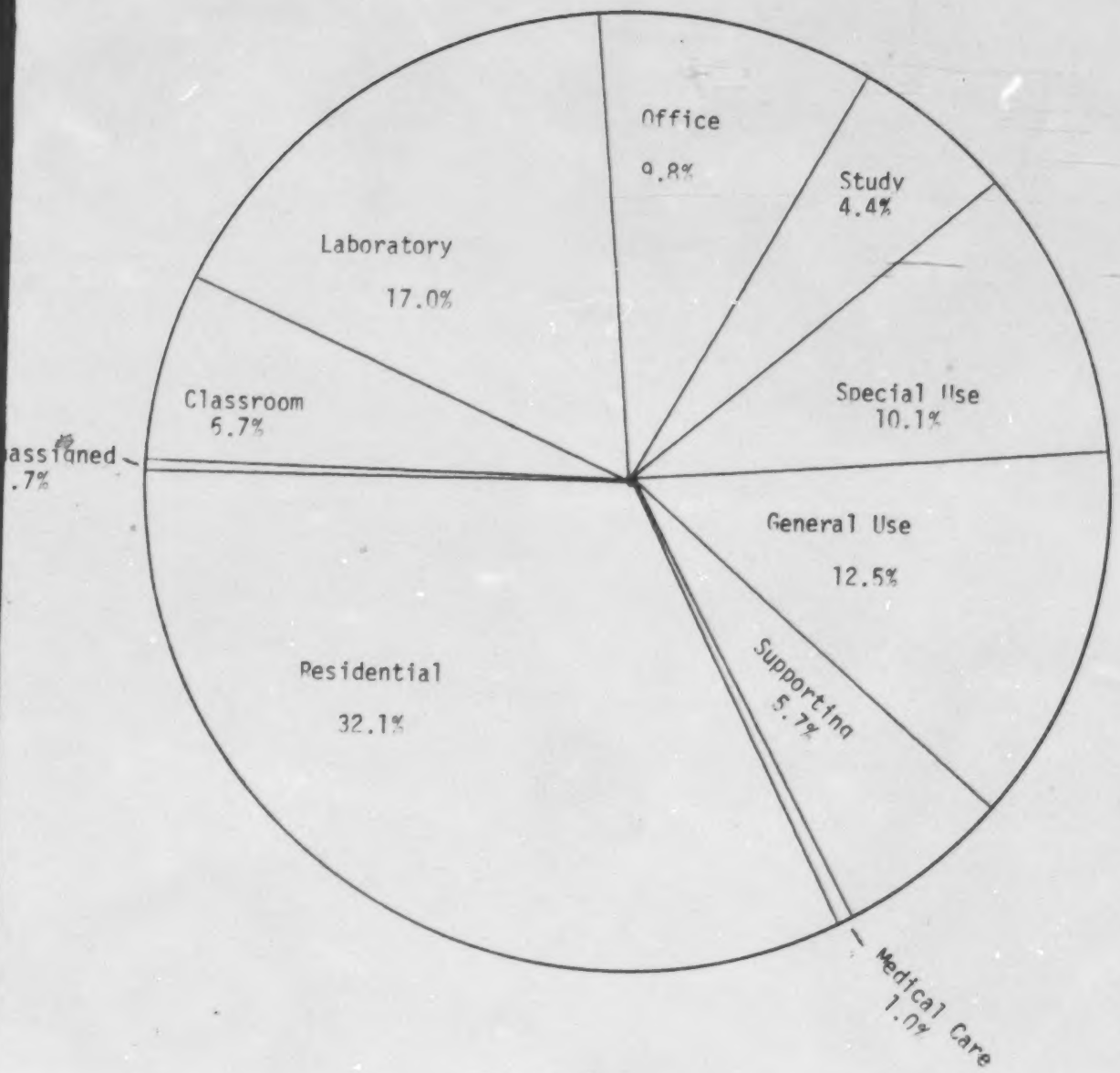


TABLE 17

NUMBER OF SQUARE FEET OF VARIOUS USE OF SPACE PER STATION*

	INSTITUT.	CLRM. SQ. FT./ STUDENT	LAB SQ. FT./ STUDENT	OFFICE SQ. FT./ STUDENT	STUDY SQ. FT./ STUDENT	SPECIAL USE SQ. FT./ STUDENT
Public 4-Year	NDSU	11.9	51.4	25.7	6.8	29.4
	UND	15.9	33.9	31.4	11.7	18.6
	DSC	25.5	28.4	36.6	18.2	55.4
	MaSC	24.1	22.8	28.0	17.9	59.0
	MiSC	16.7	22.8	14.0	10.7	22.5
	VCSC	36.8	49.2	30.0	16.3	49.3
	TOTAL	16.2	38.8	27.6	10.6	27.2
Public 2-Year	BJC	13.8	11.7	5.5	6.5	7.0
	NDSU-BB	27.3	22.0	13.0	10.8	24.1
	LRJC	23.8	43.3	13.8	8.4	21.0
	UND-WC	17.1	43.4	15.2	8.8	17.9
	SSS	10.2	56.8	11.1	8.0	11.2
	TOTAL	14.3	39.3	10.3	7.9	12.6
Private	JC	27.0	25.3	35.6	40.6	27.2
	MC	10.3	15.6	14.7	11.9	29.2
	TOTAL	16.5	19.2	22.5	22.6	28.5
	TOTAL ALL INSTITUT.	15.8	38.0	23.2	10.5	23.8

*Headcount

TABLE 17--Continued

	INSTITUT.	GENERAL USE SQ. FT./ STUDENT	SUPPORT SQ. FT./ STUDENT	MEDICAL CARE SQ. FT./ STUDENT	RESIDENT SQ. FT./ STUDENT	UNASSIGNED SQ. FT./ STUDENT	TOTAL ASSIGN. SQ. FT./ STUDENT
Public 4-Year	NDSU	17.0	14.5	.8	78.0	2.1	237.6
	UND	33.8	21.0	7.0	88.5	.8	262.6
	DSC	53.1	9.1	--	90.8	.4	317.5
	MaSC	52.3	6.6	.9	177.5	10.3	399.5
	MiSC	26.4	7.0	.4	45.1	--	165.7
	VCSC	50.0	26.5	.4	97.6	7.7	363.5
	TOTAL	29.3	16.3	3.3	83.3	1.7	254.4
Public 2-Year	BJC	14.1	.4	--	8.7	4.3	72.0
	NDSU-BB	11.4	9.9	.3	63.5	--	182.3
	LRJC	53.4	3.6	.5	64.4	--	232.2
	UND-WC	11.0	1.5	--	18.4	.9	134.1
	SSS	28.0	10.6	.2	75.4	.9	212.4
	TOTAL	23.6	6.4	.2	50.3	1.7	166.5
Private	JC	97.2	2.3	--	161.2	--	416.4
	MC	40.8	5.1	.7	48.7	.4	177.4
	TOTAL	61.8	4.0	.4	90.6	.2	266.3
	TOTAL ALL INSTITUT.	29.5	13.4	2.4	75.7	1.6	233.9

TABLE 18

INSIDE AREA BY PRIMARY ROOM FUNCTION

		ASSIGNABLE						NON-ASSIGNABLE	
		ASSIGNED		UNASSIGNED		TOTAL		CUSTODIAL	
	INSTITUT.	SQ. FT.	%	SQ. FT.	%	SQ. FT.	%	SQ. FT.	%
Public 4-Year	NDSU	1,624,915	78.5	13,456	.7	1,638,371	79.2	430,938	20.8
	UND	2,140,175	75.7	6,773	.2	2,146,948	75.9	681,495	24.1
	DSC	306,073	76.0	403	.1	306,476	76.1	96,145	23.9
	MaSC	243,303	76.0	6,415	2.0	249,718	78.0	70,241	22.0
	MiSC	364,997	77.3	--	--	364,997	77.3	106,987	22.7
	VCSC	304,337	74.0	6,505	1.5	310,842	75.5	100,656	24.5
	TOTAL	4,983,800	76.6	33,552	.5	5,017,352	77.1	1,486,462	22.9
Public 2-Year	BJC	127,061	71.4	6,545	3.7	133,606	75.1	44,191	24.9
	NDSU-BB	99,620	79.4	--	--	99,620	79.4	25,865	20.6
	LRJC	135,279	74.0	--	--	135,279	74.0	47,443	26.0
	UND-WC	77,294	78.1	507	.5	77,801	78.6	21,160	21.4
	SSS	721,126	79.5	2,531	.3	723,657	79.8	183,271	20.2
	TOTAL	1,160,380	77.8	9,583	.6	1,169,963	78.4	321,930	21.6
Private	JC	202,805	82.2	--	--	202,805	82.2	44,027	17.8
	MC	145,504	70.8	300	.1	145,804	70.9	59,827	29.1
	TOTAL	348,309	77.0	300	--	348,609	77.0	103,854	23.0
	TOTAL ALL INSTITUT.	6,492,489	76.9	43,435	.5	6,535,924	77.4	1,912,246	22.6

A further division of the assignable area is reported in Table 16. Of the 6,462,750 assignable square feet of college building space, 32 percent is contained in residential facilities. One percent is unassigned because of remodeling or unsafe conditions. Definitions of the various categories can be found at the beginning of this report. Graph 7 presents the proportions of building areas from the State according to their room type.

The relation of the areas reported in Table 16 on campus enrollments is reported in Table 17 as the number of square feet of each type of space for each student enrolled. Mayville State College has 399.5 assignable square feet for every student enrolled while the same figure at Bismarck Junior College is 72.0. The average for the State is 233.9 assignable square feet. Classroom area averages 15.8 square feet per student and ranges from 10.2 square feet at the State School of Science to 36.8.

The second way the inside building areas are categorized is according to the function the area serves. Then non-assignable areas remain the same in this summary. The breakdown of the broad functional categories is reported in Table 18.

A more refined summary of the assignable area according to the function it serves is found in Table 19. Here we find that more than one-third of the assigned room areas serve instructional functions: 4.8 percent, research: 4.8 percent, library: and 47.0 percent, institutional services.

The areas in function categories have been divided by the enrollment at each campus and reported in Table 20 as the number of square feet per headcount in each category. Instructional space ranges from 147.3 square feet per student at Valley City State College to 32.3 at Mary College. North Dakota State University and NDSU-Bottineau Branch have the smallest number of square feet of library space for each student.

TABLE 19

ASSIGNABLE SPACE BY PRIMARY ROOM FUNCTION

	INSTITUT.	INSTRUCTION SQ. FT.	%	RESEARCH SQ. FT.	%	PUBLIC SERVICE SQ. FT.	%	LIBRARY SQ. FT.	%
Public 4-Year	NDSU	490,106	29.9	216,463	13.2	38,717	2.4	44,991	2.7
	UND	637,560	29.7	96,013	4.5	40,070	1.9	97,633	4.5
	DSC	122,668	40.0	--	--	--	--	21,688	7.1
	MaSC	71,709	28.7	41	--	4,791	1.9	10,975	4.4
	MiSC	150,981	41.3	967	.3	2,067	.6	24,193	6.6
	VCSC	124,629	40.1	1,933	.6	--	--	15,544	5.0
	TOTAL	1,597,653	31.8	315,417	6.3	85,645	1.7	215,024	4.3
Public 2-Year	BJC	63,479	47.5	--	--	1,936	1.4	12,898	9.7
	NDSU-BB	48,338	48.5	--	--	--	--	3,372	3.4
	LRJC	55,374	40.9	--	--	--	--	4,662	3.5
	UND-WC	51,686	66.4	--	--	--	--	4,067	5.2
	SSS	299,510	41.4	--	--	4,241	.6	28,955	4.0
	TOTAL	518,387	44.3	--	--	6,177	.5	53,954	4.6
Private	JC	44,851	22.1	--	--	--	--	34,922	17.2
	MC	26,581	18.3	--	--	--	--	11,282	7.7
	TOTAL	71,432	20.5	--	--	--	--	46,204	13.2
	TOTAL ALL INSTITUT.	2,187,472	33.5	315,417	4.8	91,822	1.4	315,182	4.8

TABLE 19--Continued

	INSTITUT.	ADMIN. AND INSTIT. SERV. SQ. FT.	%	AUXILIARY SERVICE SQ. FT.	%	NON-INSTIT. SERVICE SQ. FT.	%	UNASSIGNED SQ. FT.	%	TOTAL SQ. FT.
Public 4-Year	NDSU	734,870	44.9	85,658	5.2	14,110	.9	13,456	.8	1,638,371
	UND	1,044,103	48.6	113,055	5.3	111,741	5.2	6,773	.3	2,146,948
	DSC	139,063	45.4	10,058	3.3	12,596	4.1	403	.1	306,476
	MaSC	138,259	55.4	9,928	4.0	7,600	3.0	6,415	2.6	249,718
	MiSC	168,310	46.1	18,479	5.1	--	--	--	--	364,997
	VCSC	124,695	40.1	36,311	11.7	1,225	.4	6,505	2.1	310,842
	TOTAL	2,349,300	46.8	273,489	5.5	147,272	2.9	33,552	.7	5,017,352
Public 2-Year	BJC	44,758	33.5	3,990	3.0	--	--	6,545	4.9	133,606
	NDSU-BB	37,729	37.9	10,181	10.2	--	--	--	--	99,620
	LRJC	71,447	52.8	3,060	2.3	736	.5	--	--	135,279
	UND-WC	16,811	21.6	4,730	6.1	--	--	507	.7	77,801
	SSS	346,412	47.9	42,008	5.8	--	--	2,531	.3	723,657
	TOTAL	517,157	44.2	63,969	5.5	736	.1	9,583	.8	1,169,963
Private	JC	111,891	55.2	11,141	5.5	--	--	--	--	202,805
	MC	95,505	65.5	11,584	7.9	552	.4	300	.2	145,804
	TOTAL	207,396	59.5	22,725	6.5	552	.2	300	.1	348,609
	TOTAL ALL INSTITUT.	3,073,853	47.0	360,183	5.5	148,560	2.3	43,435	.7	6,535,924

GPAPH 8

ASSIGNABLE SPACE BY PRIMARY ROOM FUNCTION

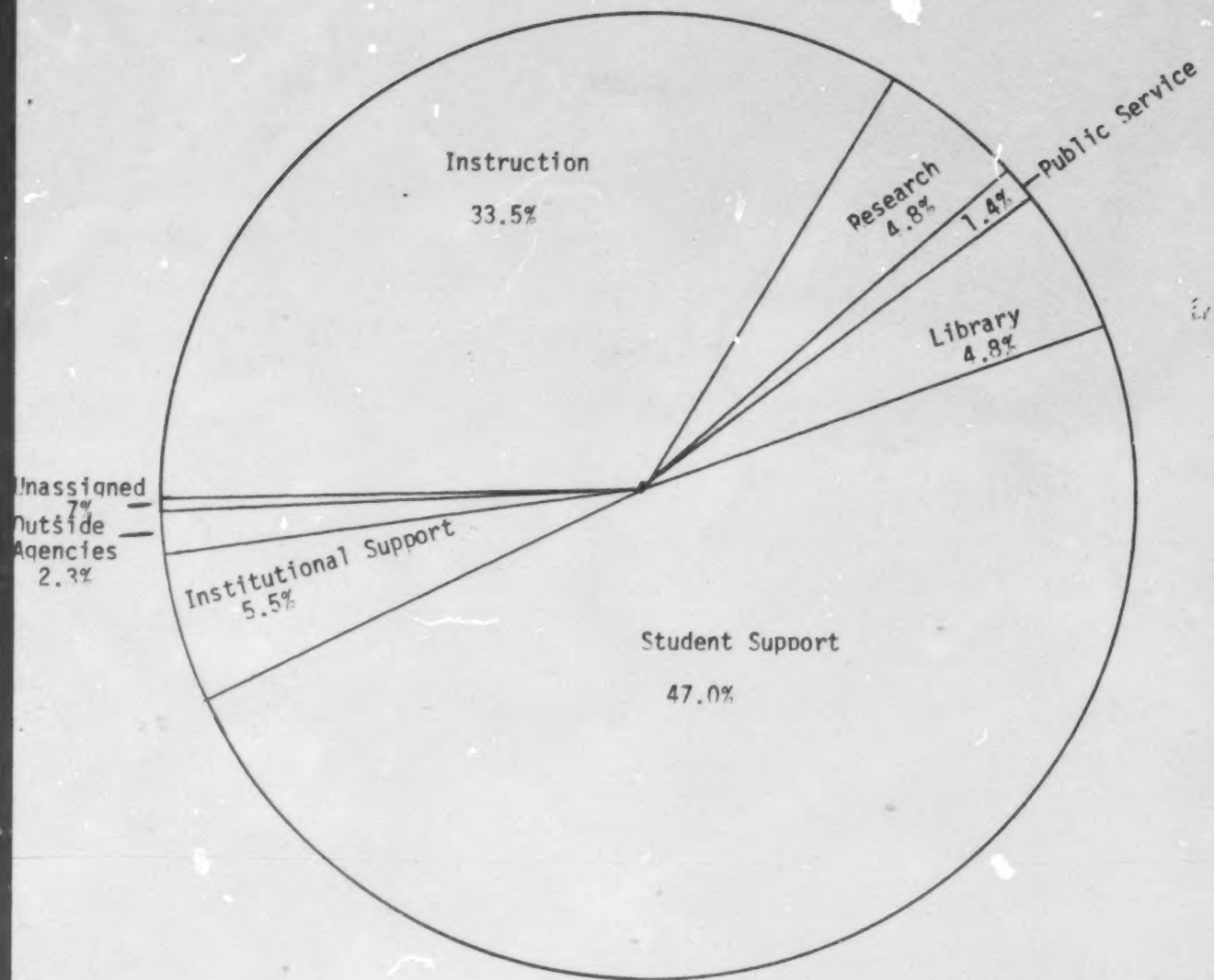


TABLE 20

NUMBER OF SQUARE FEET PER STUDENT FOR VARIOUS FUNCTIONS OF SPACE

	INSTITUT.	INSTRUCTION SQ. FT. STUDENT	RESEARCH SQ. FT. STUDENT	SERVICE SQ. FT. STUDENT	LIBRARY SQ. FT. STUDENT	ADMIN. & INSTIT. SERV. SQ. FT. STUDENT
Public 4-Year	NDSU	71.4	31.5	5.6	6.6	107.0
	UND	78.0	11.8	4.9	11.9	127.8
	DSC	125.9	--	--	22.3	142.8
	MaSC	114.7	--	7.7	17.6	221.2
	MiSC	68.5	.4	.9	11.0	76.4
	VCSC	147.3	2.3	--	18.4	147.4
	TOTAL	81.2	16.0	4.4	10.9	119.3
Public 2-Year	BJC	35.0	--	1.1	7.1	24.7
	NDSU-BB	89.3	--	--	6.2	69.7
	LRJC	94.5	--	--	8.0	121.9
	UND-WC	89.1	--	--	7.0	29.0
	SSS	96.1	--	1.4	9.3	111.1
	TOTAL	78.1	--	.9	8.1	77.9
Private	JC	92.1	--	--	71.7	229.8
	MC	32.3	--	--	13.7	116.2
	TOTAL	54.6	--	--	35.3	158.4
	TOTAL ALL INSTITUT.	79.2	11.4	3.3	11.4	111.2

TABLE 20--Continued

	INSTITUT.	AUXILIARY SERVICE SQ. FT./ STUDENT	NON-INSTIT. SERVICE SQ. FT./ STUDENT	UNASSIGNED SQ. FT./ STUDENT	TOTAL SQ. FT./ STUDENT
Public 4- Year	NDSU	12.5	2.1	2.0	238.6
	UND	13.8	13.7	.8	262.8
	DSC	10.3	12.9	.4	314.7
	MaSC	15.9	12.2	10.3	399.5
	MiSC	8.4	--	--	165.7
	VCSC	42.9	1.4	7.7	367.4
	TOTAL	13.9	7.5	1.7	254.9
Public 2-Year	BJC	2.2	--	3.6	73.7
	NDSU-BR	18.8	--	--	184.1
	LRJC	5.2	1.3	--	230.9
	UND-WC	8.2	--	.9	134.1
	SSS	13.5	--	.8	232.1
	TOTAL	9.6	.1	1.4	176.3
Private	JC	22.9	--	--	416.4
	MC	14.1	.7	.4	177.4
	TOTAL	17.4	.4	.2	266.3
	TOTAL ALL INSTITUT.	13.0	5.4	1.6	236.5

TABLE 21

QUALITY OF INSIDE ROOM AREAS

	INSTITUT.	EXCELLENT SQ. FT.	%	GOOD SQ. FT.	%	FAIR SQ. FT.	%	POOR SQ. FT.	%	SHOULD BE REPLACED SQ. FT.	%	TOTAL SQ. FT.
Public 4-Year	NDSU	1,184,660	57.2	515,668	24.9	201,631	9.8	123,838	6.0	43,512	2.1	2,069,309
	UND	2,323,523	82.1	138,248	4.9	136,523	4.8	40,976	1.5	189,173	6.7	2,828,443
	DSC	313,920	78.0	88,296	21.9	405	.1	--	--	--	--	402,621
	MaSC	227,240	71.0	42,563	13.3	44,317	13.8	1,776	.6	4,063	1.3	319,959
	MiSC	251,085	53.2	121,677	25.8	73,047	15.5	10,335	2.2	15,840	3.3	471,984
	VCSC	237,263	57.6	87,525	21.3	62,419	15.2	15,233	3.7	9,058	2.2	411,498
	TOTAL	4,537,691	69.7	993,977	15.3	518,342	8.0	192,158	3.0	261,646	4.0	6,503,814
Public 2-Year	BJC	168,215	94.6	9,582	5.4	--	--	--	--	--	--	177,797
	NDSU-BB	21,636	17.2	91,324	72.8	5,146	4.1	1,844	1.5	5,535	4.4	125,485
	LRJC	182,582	99.9	--	--	--	--	--	--	140	.1	182,722
	UND-WC	88,457	89.4	718	.7	3,056	3.1	3,456	3.5	3,274	3.3	98,961
	SSS	655,605	78.9	75,725	8.4	58,813	6.5	2,991	.3	53,794	5.9	846,928
	TOTAL	1,116,495	78.8	177,349	11.9	67,015	4.5	8,291	.6	62,743	4.2	1,431,893
Private	JC	134,795	54.6	67,170	27.2	19,006	7.7	3,844	1.6	22,017	8.9	246,832
	MC	197,615	96.1	8,016	3.9		--	--	--	--	--	205,631
	TOTAL	332,410	73.5	75,186	16.6	19,006	4.2	3,844	.8	22,017	4.9	452,463
	TOTAL ALL INSTITUT.	5,986,596	71.6	1,246,512	14.7	604,363	7.2	204,293	2.4	346,406	4.1	8,388,170

GRAPH 9

QUALITY OF ROOMS

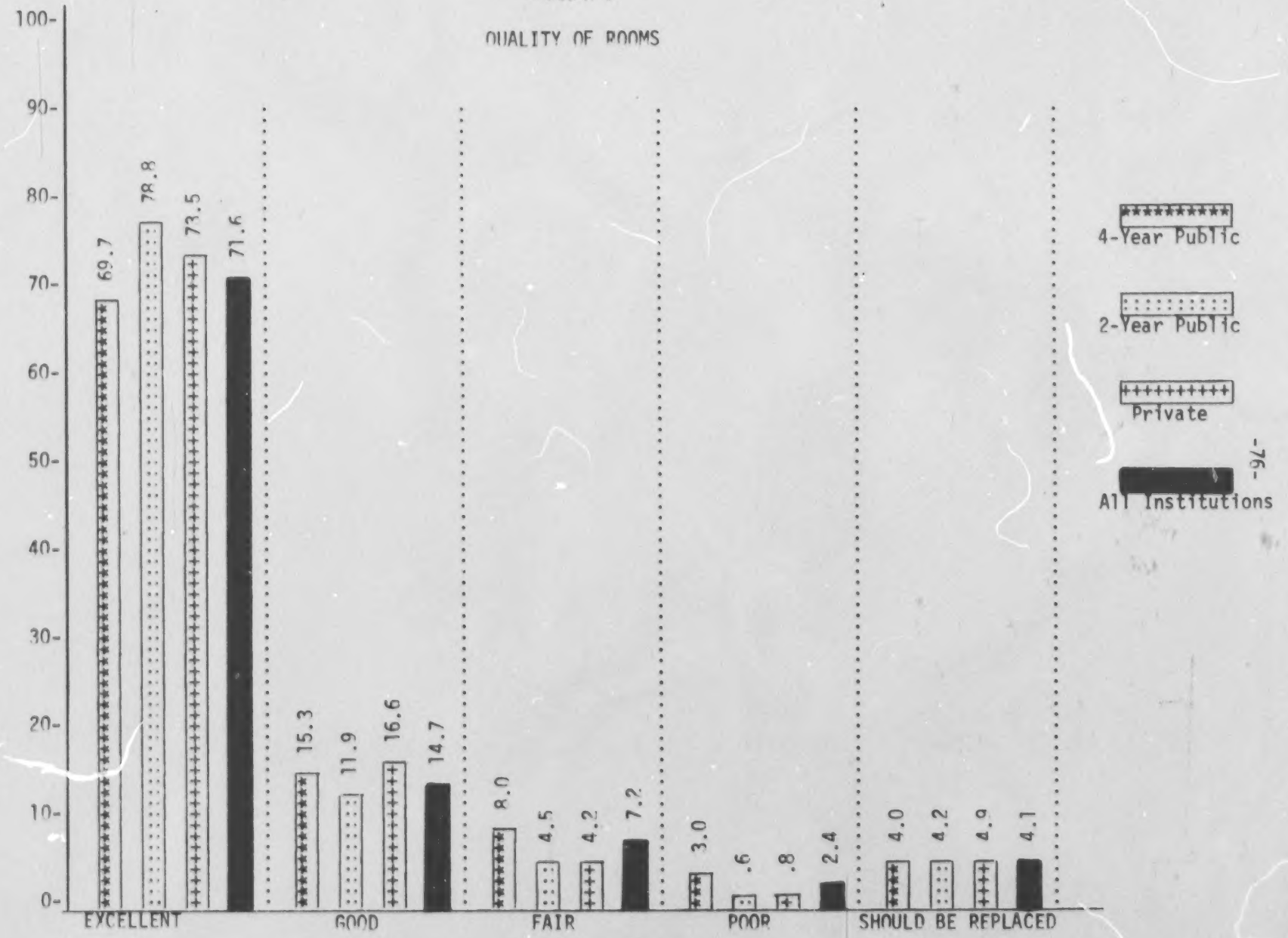


TABLE 22

QUALITY OF CLASSROOM SPACE

	INSTITUT.	EXCELLENT # RMS.	EXCELLENT ASSIGN. SQ. FT.	EXCELLENT %	GOOD # RMS.	GOOD ASSIGN. SQ. FT.	GOOD %	FAIR # RMS.	FAIR ASSIGN. SQ. FT.	FAIR %
Public 4-Year	NDSU	64	45,563	57.3	7	5,360	6.7	12	9,581	12.0
	UND	128	104,723	83.2	11	6,920	5.5	13	8,776	7.0
	DSC	14	13,266	53.7	16	11,417	46.3	--	--	--
	MaSC	14	10,341	70.4	--	--	--	6	4,354	29.6
	MiSC	29	21,264	60.0	3	1,563	4.4	10	7,248	20.5
	VCSC	12	9,036	34.2	9	6,686	25.2	12	10,124	38.2
	TOTAL	261	204,193	66.6	46	31,946	10.4	53	40,083	13.1
Public 2-Year	BJC	24	18,580	77.4	6	5,419	22.6	--	--	--
	NDSU-BB	6	5,932	44.6	4	2,825	21.3	3	3,204	24.1
	LRJC	17	13,513	100.0	--	--	--	--	--	--
	UND-WC	11	8,282	83.6	--	--	--	--	--	--
	SSS	24	19,470	61.6	5	3,259	10.3	6	5,228	16.5
	TOTAL	82	65,777	71.3	15	11,503	12.5	9	8,432	9.1
Private	JC	5	2,096	19.5	13	7,192	66.9	2	941	8.7
	MC	12	8,453	100.0	--	--	--	--	--	--
	TOTAL	17	10,549	54.9	13	7,192	37.4	2	941	5.0
	TOTAL ALL INSTITUT.	360	280,519	67.1	74	50,641	12.1	64	49,456	11.8

TABLE 22--Continued

	INSTITUT.	POOR # RMS	POOR ASSIGN. SQ. FT.	POOR %	SHOULD BE REPLACED # RMS.	SHOULD BE REPLACED ASSIGN. SQ. FT.	SHOULD BE REPLACED %	TOTAL # RMS.	TOTAL ASSIGN. SQ. FT.
Public 4-Year	NDSU	10	16,411	20.6	4	2,681	3.4	97	79,596
	UND	1	652	.5	8	4,772	3.8	161	125,843
	DSC	--	--	--	--	--	--	30	24,683
	MaSC	--	--	--	--	--	--	20	14,695
	MiSC	5	5,342	15.1	--	--	--	47	35,417
	VCSC	1	646	2.4	--	--	--	34	26,492
	TOTAL	17	23,051	7.5	12	7,453	2.4	389	306,726
Public 2-Year	BJC	--	--	--	--	--	--	30	23,999
	NDSU-BB	1	667	5.0	1	667	5.0	15	13,295
	LRJC	--	--	--	--	--	--	17	13,513
	UND-WC	--	--	--	3	1,619	16.4	14	9,901
	SSS	--	--	--	5	3,651	11.6	40	31,608
	TOTAL	1	667	.7	9	5,937	6.4	116	92,316
Private	JC	--	--	--	1	525	4.9	21	10,754
	MC	--	--	--	--	--	--	12	8,453
	TOTAL	--	--	--	1	525	2.7	33	19,207
	TOTAL ALL INSTITUT.	18	23,718	5.7	22	13,915	3.3	538	418,249

TABLE 23

QUALITY OF CLASS LABORATORY SPACE

	INSTITUT.	EXCELLENT # RMS.	EXCELLENT ASSIGN. SQ. FT.	EXCELLENT %	GOOD # RMS.	GOOD ASSIGN. SQ. FT.	GOOD %	FAIR # RMS.	FAIR ASSIGN. SQ. FT.	FAIR %
Public 4-Year	NDSU	77	79,971	76.8	--	--	--	6	3,464	3.3
	UND	80	82,848	70.4	21	12,833	10.9	7	4,572	3.9
	DSC	5	5,212	29.2	13	12,628	70.8	--	--	--
	MaSC	7	4,876	79.9	--	--	--	2	1,227	20.1
	MiSC	22	22,734	64.5	2	2,701	7.7	6	6,422	18.2
	VCSC	9	9,051	53.2	6	3,204	18.8	4	3,354	19.7
	TOTAL	200	204,692	68.7	42	31,366	10.5	25	19,039	6.4
Public 2-Year	BJC	14	18,386	97.2	3	531	2.8	--	--	--
	NDSU-BB	3	3,250	52.3	3	2,959	47.7	--	--	--
	LRJC	13	23,476	100.0	--	--	--	--	--	--
	UND-WC	12	20,931	89.3	--	--	--	1	2,090	8.9
	SSS	45	90,505	61.6	22	26,029	17.7	3	3,441	2.3
	TOTAL	87	156,548	77.6	28	29,519	10.6	4	5,531	2.0
Private	JC	--	--	--	7	5,632	100.0	--	--	--
	MC	7	8,278	100.0	--	--	--	--	--	--
	TOTAL	7	8,278	59.5	7	5,632	40.5	--	--	--
	TOTAL ALL INSTITUT.	294	369,518	72.7	77	66,517	11.3	29	24,570	4.2

TABLE 23--Continued

	INSTITUT.	POOR # RMS.	POOR ASSIGN. SQ. FT.	POOR %	SHOULD BE REPLACED # RMS.	SHOULD BE REPLACED ASSIGN. SQ. FT.	SHOULD BE REPLACED %	TOTAL # RMS.	TOTAL ASSIGN. SQ. FT.
Public 4-Year	NDSU	15	17,463	16.8	1	3,256	3.1	99	104,154
	UND	--	--	--	17	17,350	14.8	125	117,603
	DSC	--	--	--	--	--	--	18	17,840
	MaSC	--	--	--	--	--	--	9	6,103
	MiSC	2	2,284	6.5	1	1,080	3.1	33	35,221
	VCSC	2	1,416	8.3	--	--	--	21	17,025
	TOTAL	19	21,163	7.1	19	21,686	7.3	305	297,946
Public 2-Year	BJC	--	--	--	--	--	--	17	18,917
	NDSU-BB	--	--	--	--	--	--	6	6,209
	LRJC	--	--	--	--	--	--	13	23,476
	UND-WC	--	--	--	1	420	1.8	14	23,441
	SSS	--	--	--	13	27,049	18.4	83	147,024
	TOTAL	--	--	--	14	27,469	9.8	133	219,067
Private	JC	--	--	--	--	--	--	7	5,632
	MC	--	--	--	--	--	--	7	8,278
	TOTAL	--	--	--	--	--	--	14	13,910
	TOTAL ALL INSTITUT.	19	21,163	3.5	33	49,155	8.3	452	530,923

Tables 21 through 24 summarize the quality of various types of inside building area. The quality of all rooms on each campus is considered in Table 21. More than two-thirds of the inside area at the North Dakota Colleges is in excellent condition, while 5.7 percent will need to be replaced within the next five years. North Dakota State University and University of North Dakota include 8.1 and 8.2 percent respectively in the two poorest quality ratings. Mary College and the Lake Region Junior College occupy new buildings which are in excellent condition.

The quality of classroom is the topic of the next table. More than one-fourth of this space at North Dakota State University will need replacement within the next five years. The State School of Science and UND-Williston Center have 11.6 and 16.4 percent of their classroom space in the should be replaced category.

Class laboratories at North Dakota institutions of higher education are generally in excellent condition with 72.7 percent of those areas rated in that category. However, 19.9 percent at the North Dakota State University, 18.8 percent at North Dakota State School of Science, and 14.9 percent at the University of North Dakota will need replacement within the next five years. The quality of class laboratories is summarized in Table 23.

Generally, office areas are found in about the same proportions as the quality ratings for all inside areas. Table 24 indicates that slightly less than 6 percent of this type of space will need replacement in the next five years.

TABLE 24

QUALITY OF OFFICE SPACE

	INSTITUT.	EXCELLENT # RMS.	EXCELLENT ASSIGN. SQ. FT.	EXCELLENT %	GOOD # RMS.	GOOD ASSIGN. SQ. FT.	GOOD %	FAIR # RMS.	FAIR ASSIGN. SQ. FT.	FAIR %
Public 4-Year	NDSU	518	85,919	58.6	110	24,336	16.6	104	21,179	14.5
	UND	746	150,462	70.0	161	26,129	12.2	148	27,793	12.9
	DSC	56	13,443	45.9	88	15,820	54.1	--	--	--
	MaSC	41	6,119	60.4	--	--	--	16	4,020	39.6
	MiSC	93	16,881	62.9	6	1,490	5.6	35	8,260	30.8
	VCSC	40	6,592	31.8	31	7,515	36.2	29	6,038	29.1
	TOTAL	1,494	279,416	62.3	396	75,290	16.8	332	67,290	15.0
Public 2-Year	BJC	38	7,915	91.4	4	745	8.6	--	--	--
	NDSU-BB	8	888	13.6	20	4,353	66.6	3	874	13.4
	LRJC	45	6,149	97.8	--	--	--	--	--	--
	UND-WC	21	4,897	76.2	--	--	--	2	644	10.1
	SSS	105	18,440	61.3	35	7,086	23.6	18	3,331	11.1
	TOTAL	217	38,289	66.1	59	12,184	21.0	23	4,849	8.4
Private	JC	2	3,110	19.6	60	10,129	63.7	10	1,511	9.5
	MC	50	11,138	100.0	--	--	--	--	--	--
	TOTAL	52	14,248	52.7	60	10,129	37.4	10	1,511	5.6
	TOTAL ALL INSTITUT.	1,763	331,953	62.2	515	97,603	18.4	365	73,650	13.8

TABLE 24--Continued

	INSTITUT.	POOR # RMS.	POOR ASSIGN. SQ. FT.	POOR %	SHOULD BE REPLACED # RMS.	SHOULD BE REPLACED ASSIGN. SQ. FT.	SHOULD BE REPLACED %	TOTAL # RMS.	TOTAL ASSIGN. SQ. FT.
Public 4-Year	NDSU	55	10,538	7.2	21	4,573	3.1	808	146,545
	UND	--	--	--	51	10,505	4.9	1,106	214,889
	DSC	--	--	--	--	--	--	144	29,263
	MaSC	--	--	--	--	--	--	57	10,139
	MiSC	1	192	.7	--	--	--	135	26,823
	VCSC	2	612	2.9	--	--	--	102	20,757
	TOTAL	58	11,342	2.5	72	15,078	3.4	2,352	448,416
Public 2-Year	BJC	--	--	--	--	--	--	42	8,660
	NDSU-BB	2	416	6.4	--	--	--	33	6,531
	LRJC	--	--	--	1	140	2.2	46	6,289
	UND-WC	2	508	7.9	1	375	5.8	26	6,424
	SSS	--	--	--	10	1,203	4.0	168	30,060
	TOTAL	4	924	1.5	12	1,718	3.0	315	57,964
Private	JC	6	1,153	7.2	--	--	--	78	15,903
	MC	--	--	--	--	--	--	50	11,138
	TOTAL	6	1,153	4.3	--	--	--	128	27,041
	TOTAL ALL INSTITUT.	68	13,419	2.5	84	16,796	3.1	2,795	533,421

PART II

UTILIZATION

The preceding part of this report addressed itself to "how much" and "what kind" of physical facilities are being used by colleges and universities in North Dakota. The following Part will concern itself with the extent of utilization of general classrooms and class laboratories.

The level of utilization of classrooms and class laboratories must be interpreted carefully. Generally, the smaller the number of students enrolled at an institution, the more difficult it is to attain high utilization levels because of fewer scheduling options. In addition, a certain minimum number of class laboratories are required for specialized study whether one section requiring that laboratory is offered or many sections. For example, a biology laboratory is needed even though only one or two biology classes are offered. Also, that laboratory cannot be used as a language laboratory.

General Classroom Utilization

This section of Part II summarizes the use made of general classrooms during the fall term of 1974. These are not specialized room areas and can accommodate any general type of class. The number of periods reported include only regularly scheduled class meetings. An index is used to simplify interpretation. One can readily see how close an institution comes to or exceeds the various goals for room use. An index rating of 100 indicates that a college is using a particular room or station

the number of hours stated as the goal in that situation. Those with index ratings of less than 100 have not achieved that goal.

Classrooms at North Dakota colleges and universities were in use an average of 20.59 hours per week in the fall of 1974. This is 68.6 percent of the thirty-hour goal for room use. Table 25 reports the utilization figures for general classrooms. Bismarck Junior College was the only college to reach the 30 hour-per-week goal.

Since, in Table 25, a room is considered in use without regard to the number of people occupying that area, a figure more indicative of room use is the level of utilization of stations or desks in those rooms. Table 26 summarizes the average number of periods per week that each classroom station is used. An 18 hour-per-week index is used which is arrived at by applying the assumption that classrooms should be used at least 30 hours per week and when in use be two-thirds full.

The highest levels of actual student-station occupancy was found at Bismarck Junior College (18.60 hours/week) and the State School of Science (19.23 hours/week). More than seventy percent of the desired level of station use was achieved on a state-wide basis.

Student-station utilization is greatly influenced by the number of desks occupying a given area. Therefore, in order to arrive at a figure which is comparable among institutions, the optimum station is used. The number of optimum stations in a room is calculated by dividing the area of classroom space by the square foot figure representing the average area needed to accommodate a student station. For the purposes of this study, 16 square feet was considered necessary for each student station. The average square feet per station allowed at each college is reported in Table 26. The average for the State was 17.08 square feet.

TABLE 25

UTILIZATION OF GENERAL CLASSROOMS
Fall, 1974

	INSTITUT.	# CLRMS.	TOTAL ASSIGN. SQ. FT.	AVE. SQ. FT./CLRM.	PERIODS USED/WEEK	AVE. NO. PER. CLRMS. USED/WEEK	ROOM USE INDEX 30 HR. WEEK	ROOM USE INDEX 40 HR. WEEK
Public 4-Year	NDSU	97	79,596.00	820.58	1,783.20	18.38	61.27	45.95
	UND	161	125,843.00	781.63	3,533.10	21.94	73.13	54.85
	DSC	30	24,683.00	822.77	530.00	17.67	58.90	44.18
	MaSC	20	14,695.00	734.75	437.50	21.88	72.93	54.70
	MiSC	47	35,417.00	753.55	960.00	20.43	68.10	51.08
	VCSC	34	26,492.00	779.18	390.00	11.47	38.23	28.68
	TOTAL	389	306,726.00	788.50	7,633.80	19.62	65.40	49.05
Public 2-Year	BJC	30	23,999.00	799.97	946.50	31.55	105.17	78.88
	NDSU-BB	16	13,873.00	867.06	244.00	15.25	50.83	38.13
	LRJC	18	14,249.00	791.61	408.50	22.69	75.63	56.73
	UND-WC	14	9,901.00	707.21	292.00	20.86	69.53	52.15
	SSS	36	26,871.00	746.42	853.00	23.69	78.97	59.23
	TOTAL	114	88,893.00	779.76	2,744.00	24.07	80.23	60.18
Private	JC	21	10,754.00	512.10	323.00	15.38	51.27	38.45
	MC	12	8,453.00	704.42	334.00	27.83	92.77	69.58
	TOTAL	33	19,207.00	582.03	657.00	19.91	66.37	49.78
	TOTAL ALL INSTITUT.	536	414,826.00	773.93	11,034.80	20.59	68.63	51.48

TABLE 26

UTILIZATION OF ACTUAL STUDENT STATIONS
IN GENERAL CLASSROOMS-Fall 1974

	INSTITUT.	STUDENT CONTACT HOURS	ACTUAL STATIONS	SQ. FT. PER STA.	AVE. NO. STA./RM	AVE. NO. PER. STA. USED/WEEK	STA. USE IND. BASED ON 18 HOUR WEEK
Public 4-Year	NDSU	71,089.80	6,037.00	13.18	62.24	11.78	65.44
	UND	106,570.90	7,167.00	17.56	44.52	14.87	82.61
	DSC	12,572.00	1,366.00	18.07	45.53	9.20	51.11
	MaSC	9,410.50	899.00	16.35	44.95	10.47	58.17
	MiSC	24,977.00	2,225.00	15.92	47.34	11.23	62.39
	VCSC	8,287.50	1,401.00	18.91	41.21	5.92	32.89
	TOTAL	232,907.70	19,095.00	16.06	49.09	12.20	67.78
Public 2-Year	BJC	19,586.50	1,053.00	22.79	35.10	18.60	103.33
	NDSU-BB	5,566.00	616.00	22.52	38.50	9.04	50.22
	LRJC	7,046.00	519.00	27.45	28.83	13.58	75.44
	UND-WC	6,237.00	449.00	22.05	32.07	13.89	77.17
	SSS	25,250.00	1,313.00	20.47	36.47	19.23	106.83
	TOTAL	63,685.50	3,950.00	22.50	33.77	16.12	89.55
Private	JC	6,025.00	788.00	13.65	37.52	7.65	42.50
	MC	7,717.00	460.00	18.38	38.33	16.78	93.22
	TOTAL	13,742.00	1,248.00	15.39	37.82	11.01	61.17
	TOTAL ALL INSTITUT.	310,335.20	24,293.00	17.08	45.32	12.77	70.94

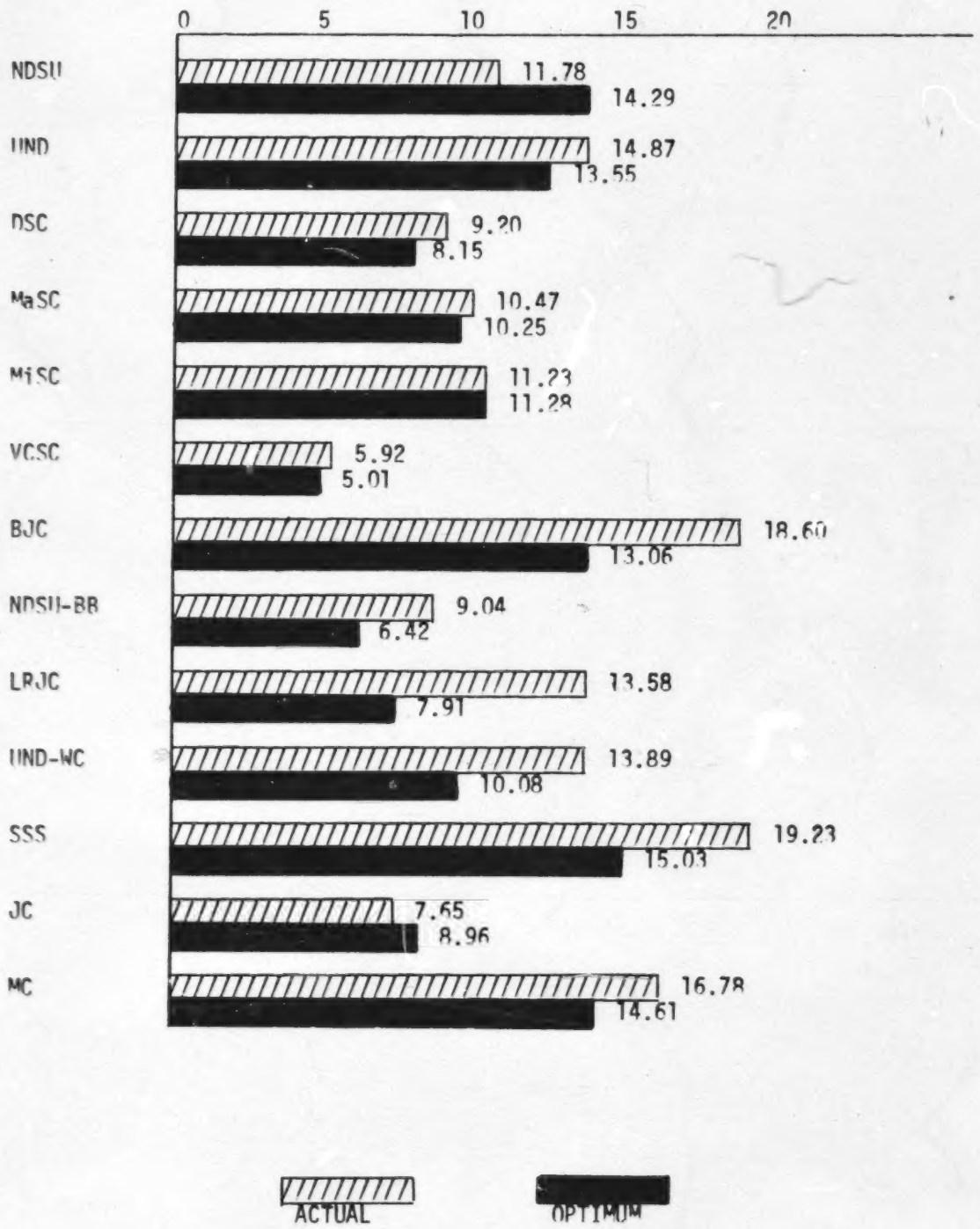
TABLE 27

UTILIZATION OF OPTIMUM STUDENT STATIONS
GENERAL CLASSROOMS
Fall, 1974

	INSTITUT.	STUDENT CONTACT HOURS	OPTIMUM STATIONS	AVE. NO. STA./RM.	AVE. NO. PER.STA. USED/WEEK	STA. USE INDEX BASED ON 18 HOUR WEEK
Public 4-Year	NDSU	71,089.80	4,974.75	51.29	14.29	79.39
	UND	106,570.90	7,865.19	48.85	13.55	75.28
	DSC	12,572.00	1,542.69	51.42	8.15	45.28
	MaSC	9,410.50	918.44	45.92	10.25	56.94
	MiSC	24,977.00	2,213.56	47.10	11.28	62.67
	VCSC	8,287.50	1,655.75	48.70	5.01	27.83
	TOTAL	232,907.70	19,170.38	49.28	12.15	67.50
Public 2-Year	BJC	19,586.50	1,499.94	50.00	13.06	72.56
	NDSU-BB	5,566.00	867.06	54.19	6.42	35.67
	LRJC	7,046.00	890.56	49.48	7.91	43.94
	UND-WC	6,237.00	618.81	44.20	10.08	56.00
	SSS	25,250.00	1,679.44	46.65	15.03	83.50
	TOTAL	63,685.50	5,555.81	48.74	11.46	63.66
Private	JC	6,025.00	672.13	32.01	8.96	49.78
	MC	7,717.00	528.31	44.03	14.61	81.17
	TOTAL	13,742.00	1,200.44	36.38	11.45	63.61
	TOTAL ALL INSTITUT.	310,335.20	25,926.63	48.37	11.97	66.50

GRAPH 10

COMPARISON OF ACTUAL AND OPTIMUM
STUDENT STATION UTILIZATION IN GENERAL CLASSROOMS



Optimum student station use levels are reported in Table 27. The highest level was found at North Dakota State School of Science which used these hypothetical stations an average of 15.03 hours per week. On a statewide average, optimum stations were used 11.97 hours a week.

A comparison of actual and optimum station utilization is illustrated in Graph 10. North Dakota State University allows considerably less area per station than 16 square feet. Therefore, their optimum station utilization is considerably greater than that of actual stations. The opposite is true at Bismarck Junior College and Lake Region Junior College.

Class Laboratory Utilization

The same procedure as outlined for general classrooms was applied to class laboratories. Once again, unscheduled laboratory use have not been included. Also, no summary has been compiled for optimum station use for laboratories because of the lack of any firm standards relating to the area required per station in the various discipline areas.

The 34.44 hours per week that the laboratories were used at Bismarck Junior College was the highest in the State. Jamestown College achieved the lowest level of 1.71 hours a week while the state average was 15.24 hours.

Table 29 concerns itself with the extent of use made of the student stations in class laboratories. The State School of Science ranked first in laboratory station use (29.62 hours/week) and Jamestown College the lowest at .86 hours per week.

Colleges with trade and technical programs have some advantage in scheduling which enables them to more easily attain high utilization levels. Laboratory sessions in these areas are often scheduled in four-hour blocks of time and, generally, for five days a week.

TABLE 28

UTILIZATION OF CLASS LABORATORIES
Fall, 1974

	INSTITUT.	NO. CLASS LABS	TOTAL ASSIGN. SQ. FT.	AVE. SQ. FT./LAB	TOTAL PER. LABS USED/WEEK	AVE. NO. PER. LABS USED/WEEK	ROOM USE INDEX 30 HOUR WEEK	ROOM USE INDEX 40 HOUR WEEK
Public 4-Year	NDSU	99	104,154.00	1,052.06	1,124.00	11.35	37.83	28.38
	UND	122	116,308.00	953.34	955.00	7.83	26.10	19.58
	DSC	18	17,840.00	991.11	171.00	9.50	31.67	23.75
	MaSC	9	6,103.00	678.11	104.00	11.56	38.53	28.90
	MiSC	33	35,221.00	1,067.30	423.00	12.82	42.73	32.05
	VCSC	21	17,023.00	810.71	153.00	7.29	24.30	18.23
	TOTAL	302	296,651.00	982.29	2,930.00	9.70	32.33	24.25
Public 2-Year	BJC	17	18,386.00	1,112.76	585.50	34.44	114.80	86.10
	NDSU-BB	6	6,209.00	1,034.83	41.00	6.83	22.77	17.08
	LRJC	13	23,476.00	1,805.85	342.00	26.31	87.70	65.78
	UND-WC	14	23,441.00	1,674.36	367.50	26.25	87.50	65.63
	SSS	69	112,713.00	1,633.52	2,295.00	33.26	110.87	83.15
	TOTAL	119	184,225.00	1,548.11	3,631.00	30.51	101.70	76.28
Private	JC	7	5,632.00	804.57	12.00	1.71	5.70	4.28
	MC	7	8,278.00	1,182.57	55.00	7.86	26.20	19.65
	TOTAL	14	13,910.00	993.57	67.00	4.79	15.97	11.98
	TOTAL ALL INSTITUT.	435	494,786.00	1,137.44	6,628.00	15.24	301.20	225.90

100

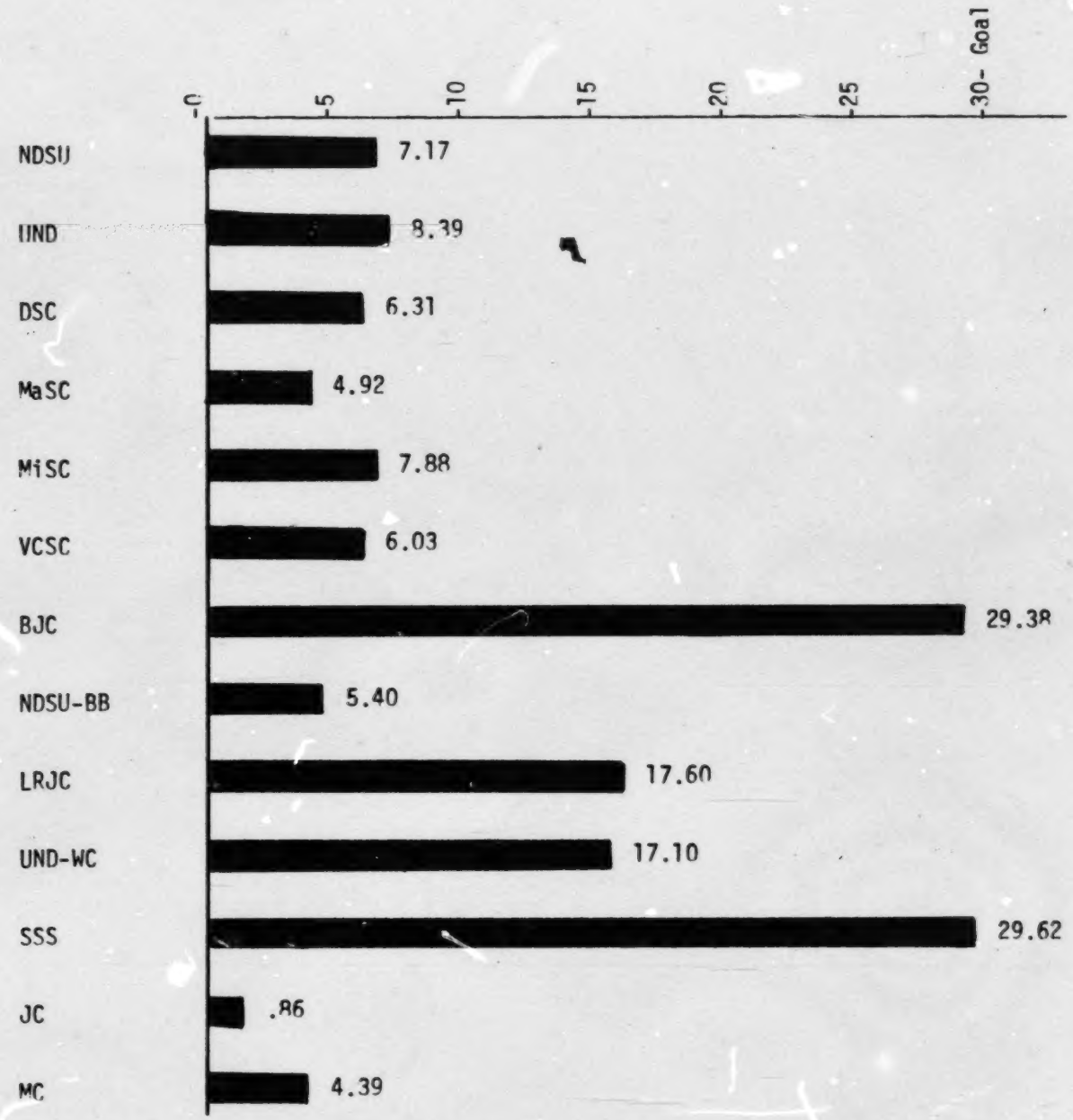
TABLE 29

UTILIZATION OF ACTUAL STUDENT STATIONS
IN CLASS LABORTORIES
Fall, 1974

	INSTITUT.	STUDENT CONTACT HOURS	ACTUAL STATIONS	SQ. FT. PER. STA	AVE. NO. STA./ROOM	AVE. NO. PER. STA. USED/WEEK	STA. USE INDEX BASED ON 18 HOUR WEEK
Public 4-Year	NDSU	18,722.50	2,610.00	39.91	26.36	7.17	39.83
	UND	20,099.00	2,395.00	48.56	19.63	8.39	46.61
	DSC	3,274.50	519.00	34.37	28.83	6.31	35.06
	MaSC	1,023.00	208.00	29.34	23.11	4.92	27.33
	MiSC	8,535.00	1,083.00	32.52	32.82	7.88	43.78
	VCSC	2,839.50	471.00	36.15	22.43	6.03	33.50
	TOTAL	54,493.50	7,286.00	40.72	24.13	7.48	41.56
Public 2-Year	BJC	10,548.00	359.00	52.69	21.12	29.38	163.22
	NDSU-BB	691.00	128.00	48.51	21.33	5.40	30.00
	LRJC	5,244.00	298.00	78.78	22.92	17.60	97.78
	UND-WC	5,728.50	335.00	69.97	23.93	17.10	95.00
	SSS	53,337.00	1,801.00	62.58	26.10	29.62	164.56
	TOTAL	75,548.50	2,921.00	63.07	24.55	25.86	143.66
Private	JC	132.00	153.00	36.81	21.86	.86	4.78
	MC	1,141.00	260.00	31.84	37.14	4.39	24.39
	TOTAL	1,273.00	413.00	33.68	29.50	3.08	17.11
	TOTAL ALL INSTITUT.	131,315.00	10,620.00	46.59	24.41	12.36	68.66

GRAPH 11

UTILIZATION OF ACTUAL STUDENT-STATIONS IN CLASS LABORATORIES - FALL 1974



Graph 11 illustrates the levels of station use at each North Dakota College Campus as related to the 18 hour-a-week goal. These are the same figures as are reported in Table 29.

The type of program offered at an institution, as well as the physical facilities available, result in differing requirements for various types of space at given institutions. For example, a college with a large proportion of trade and technical programs will have a large part of its instruction taking place in class laboratories. On the other hand, a liberal arts institution generally will produce more in general classrooms than in class laboratories. Tables 30 and 31 present the number and percent of student contact hours and student credit hours produced in various types of rooms.

The proportions of contact and credit hours produced in classrooms and class laboratories at a given institution may differ due to the way credit hours are assigned to laboratory sections. Some institutions assign all credits for a class to the lecture portion held in a general classroom and none to the lab section. Others divide the credit hours between the two. The first practice will result in higher proportions of credit hours being produced in classrooms than is actually the situation.

The category titled "Other" includes other room types on campus as well as off campus activity. For example, a nursing laboratory at a local hospital would fall into this category.

The number of residents units by occupancy is illustrated in Tables 32 and 33. Nearly all of the dormitory rooms were designed for two occupants and generally include facilities for a head resident in the building. Very few dormitories have guest rooms. There are four more residence buildings for female students then males. The largest proportion of married student units were constructed as two-bedroom apartments. However, the University of North Dakota does have several three-bedroom units for married students and faculty.

TABLE 30

CONTACT HOURS PRODUCED IN VARIOUS ROOM TYPES

	INSTITUT.	CLASSROOMS CONTACT HOURS	%	CLASS LABS CONTACT HOURS	%	SPEC. LABS CONTACT HOURS	%	OFFICES CONTACT HOURS	%
Public 4-Year	NDSU	71,089.80	66.1	18,722.50	17.4	684.00	.6	8,521.00	7.9
	UND	106,570.90	69.3	20,099.00	13.1	5,132.00	3.3	6,629.70	4.4
	DSC	12,572.00	71.6	3,274.50	18.6	--	--	486.00	2.8
	MaSC	9,410.50	72.7	1,023.00	7.9	171.00	1.3	239.00	1.9
	MiSC	24,977.00	67.3	8,535.00	23.0	60.00	.2	2,043.00	5.5
	VCSC	8,287.50	60.3	2,839.50	20.6	1,353.00	9.8	44.50	.3
	TOTAL	232,907.70	68.0	54,493.50	15.9	7,400.00	2.1	17,963.20	5.2
Public 2-Year	BJC	19,586.50	61.7	10,548.00	33.2	49.00	.2	172.00	.6
	NDSU-BB	5,566.00	74.9	691.00	9.3	--	--	12.00	.2
	LRJC	7,046.00	53.1	5,244.00	39.5	--	--	34.00	.3
	UND-WC	6,237.00	49.2	5,728.50	45.1	--	--	22.00	.1
	SSS	25,250.00	30.7	53,337.00	64.7	520.00	.6	1,350.00	1.6
	TOTAL	63,685.50	43.2	75,548.50	51.2	569.00	.4	1,590.00	1.1
Private	JC	6,025.00	61.8	132.00	1.4	39.00	.4	219.00	2.2
	MC	7,717.00	66.3	1,141.00	9.8	--	--	325.00	2.7
	TOTAL	13,742.00	64.3	1,273.00	6.0	39.00	.1	544.00	2.5
	TOTAL ALL INSTITUT.	310,335.20	60.7	131,315.00	25.7	8,008.00	1.6	20,097.20	3.9

TABLE 30--Continued

	INSTITUT.	PHY. EDUC. CONTACT HOURS	%	ASSEMBLY CONTACT HOURS	%	OTHER CONTACT HOURS	%	TOTAL CONTACT HOURS
Public 4-Year	NDSU	1,306.00	1.2	2,828.00	2.6	4,446.50	4.2	107,597.80
	UND	3,613.00	2.3	1,433.50	.9	10,283.00	6.7	153,761.10
	DSC	334.00	1.9	48.00	.2	852.00	4.9	17,566.50
	MaSC	670.00	5.2	839.50	6.5	583.00	4.5	12,936.00
	MiSC	753.00	2.0	50.00	.1	713.00	1.9	37,131.00
	VCSC	356.00	2.6	42.00	.3	843.50	6.1	13,766.00
	TOTAL	7,032.00	2.1	5,241.00	1.5	17,721.00	5.2	342,758.40
Public 2-Year	BJC	1,157.00	3.6	--	--	232.00	.7	31,744.50
	NDSII-BB	342.00	4.6	--	--	818.00	11.0	7,429.00
	LRJC	347.00	2.6	--	--	603.00	4.5	13,274.00
	UND-WC	400.00	3.2	--	--	300.50	2.4	12,688.00
	SSS	--	--	--	--	1,935.00	2.4	82,392.00
	TOTAL	2,246.00	1.5	--	--	3,888.50	2.6	147,527.50
Private	JC	436.00	4.5	--	--	2,894.00	29.7	9,745.00
	MC	220.00	1.9	1,399.50	12.0	833.00	7.3	11,635.50
	TOTAL	656.00	3.2	1,399.50	6.5	3,727.00	17.4	21,380.50
	TOTAL ALL INSTITUT.	9,934.00	1.9	6,640.50	1.2	25,336.50	5.0	511,666.40

TABLE 31

STUDENT CREDIT HOURS PRODUCED IN VARIOUS ROOM TYPES

	INSTITUT.	CLASSROOMS CREDIT HOURS	%	CLASS LABS CREDIT HOURS	%	SPEC. LABS CREDIT HOURS	%	OFFICES CREDIT HOURS	%
Public 4-Year	NDSU	72,314.00	77.0	9,282.50	9.8	423.00	.5	6,074.00	6.5
	UND	97,453.40	82.6	7,084.80	6.0	1,211.00	1.0	4,044.00	3.4
	DSC	11,595.00	79.5	2,175.00	14.9	--	--	266.00	1.8
	MaSC	8,192.00	85.8	491.00	5.1	171.00	1.8	103.00	1.1
	MiSC	25,127.00	83.8	3,615.00	12.0	45.00	.2	187.00	.6
	VCSC	8,276.00	65.9	2,309.00	18.4	1,017.00	8.1	74.00	.6
	TOTAL	222,957.40	80.0	24,957.30	9.0	2,867.00	1.0	10,748.00	3.9
Public 2-Year	BJC	13,522.20	76.0	3,374.00	19.0	49.00	.3	122.00	.7
	NDSU-BB	5,104.00	87.9	229.00	3.9	--	--	6.00	.2
	LRJC	5,219.00	56.5	3,284.00	35.6	--	--	32.00	.3
	UND-WC	5,492.00	59.2	3,466.00	37.3	--	--	22.00	.2
	SSS	22,766.50	44.3	26,559.50	51.7	208.00	.4	540.00	1.1
	TOTAL	52,103.70	55.8	36,912.50	39.5	257.00	.3	722.00	.8
Private	JC	3,725.00	89.2	37.00	.9	13.00	.3	257.00	6.2
	MC	7,249.00	67.4	538.00	5.0	--	--	245.00	2.3
	TOTAL	10,974.00	73.5	575.00	3.9	13.00	.1	502.00	3.4
	TOTAL ALL INSTITUT.	286,035.10	73.9	62,444.80	16.2	3,137.00	.8	11,972.00	3.1

TABLE 31--Continued

	INSTITUT.	PHY. EDUC. CREDIT HOURS	%	ASSEMBLY CREDIT HOURS	%	OTHER CREDIT HOURS	%	TOTAL CREDIT HOURS
Public 4-Year	NDSU	715.00	.8	2,134.00	2.3	2,942.00	3.1	93,884.50
	UND	1,226.00	1.0	1,077.00	1.0	5,953.30	5.0	118,049.50
	DSC	140.00	1.0	6.00	--	406.00	2.8	14,588.00
	MaSC	272.00	2.8	118.00	1.3	201.00	2.1	9,548.00
	MiSC	466.00	1.6	10.00	--	546.00	1.8	29,996.00
	VCSC	183.00	1.5	42.00	.3	659.00	5.2	12,560.00
	TOTAL	3,002.00	1.1	3,387.00	1.2	10,707.30	3.8	278,626.00
Public 2-Year	BJC	700.00	3.9	--	--	24.00	.1	17,791.20
	NDSU-BB	171.00	2.9	--	--	295.00	5.1	5,805.00
	LRJC	181.00	2.0	--	--	516.00	5.6	9,232.00
	UND-WC	200.00	2.2	--	--	103.00	1.1	9,283.00
	SSS	--	--	--	--	1,269.00	2.5	51,343.00
	TOTAL	1,252.00	1.3	--	--	2,207.00	2.3	93,454.20
Private	JC	120.00	2.9	--	--	21.00	.5	4,173.00
	MC	55.00	.5	1,922.00	17.9	745.50	6.9	10,754.50
	TOTAL	175.00	1.2	1,922.00	12.9	766.50	5.0	14,927.50
	TOTAL ALL INSTITUT.	4,429.00	1.1	5,309.00	1.4	13,680.80	3.5	387,007.70

TABLE 32

TYPE OF ROOMS IN SINGLE STUDENT HOUSING FACILITIES - 1974

	INSTITUT.	# DORMS MEN	# DORMS WOMEN	ONE STUDENT DE-SIGN	ONE STUDENT PRAC-TICE	TWO STUDENTS DE-SIGN	TWO STUDENTS PRAC-TICE	THREE STUDENTS DE-SIGN	THREE STUDENTS PRAC-TICE	FOUR OR MORE STUDENTS DE-SIGN	FOUR OR MORE STUDENTS PRAC-TICE	GUESTS DE-SIGN	GUESTS PRAC-TICE	HEAD RESIDENT OR FACULTY DE-SIGN	HEAD RESIDENT OR FACULTY PRAC-TICE
Public 4-Year	NDSU	5.5	6.5	59	216	781	600	40	40	195	195	--	--	10	9
	UND	7	6	124	202	1,335	1,311	136	--	--	--	12	29	13	--
	DSC	2	4	4	4	289	289	--	--	2	2	--	--	4	4
	MaSC	2.5	3.5	8	60	274	207	15	--	9	9	--	--	5	5
	MiSC	2	3	10	112	335	233	--	--	--	--	--	--	5	5
	VCSC	2	3	--	90	273	183	--	--	--	--	--	--	6	6
	TOTAL	21.0	26.0	205	684	3,287	2,823	191	40	206	206	12	29	43	29
Public 2-Year	BJC	1	1	1	1	104	104	--	--	--	--	--	--	3	3
	NDSU-BB	2	1	--	--	95	95	--	--	17	17	--	--	--	--
	LRJC	2.5	2.5	0	5	119	115	5	1	--	--	--	--	--	--
	UND-WC	1	0.0	--	--	41	41	--	--	--	--	--	--	1	1
	SSS	5	5	11	18	730	714	34	43	36	36	21	21	9	9
	TOTAL	11.5	9.5	12	24	1,089	1,069	39	44	53	53	21	21	13	13
Private	JC	2	2	22	20	184	301	1	0	30	4	6	--	5	4
	MC	0	1	9	14	118	90	15	30	--	--	2	6	6	7
	TOTAL	2	3	31	34	302	391	16	30	30	4	8	6	11	11
	TOTAL ALL INSTITUT.	34.5	38.5	248	742	4,678	4,283	246	114	289	263	41	56	67	53